# **NACOmatic**

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#### GENERAL INFORMATION

This Airport/Facility Directory is a Civil Flight Information Publication published and distributed every eight weeks by the National Aeronautical Charting Office, FAA, Department of Transportation, Silver Spring, Maryland 20910. It is designed for use with Aeronautical Charts covering the conterminous United States, Puerto Rico and the Virgin Islands.

This directory contains all open to the public airports, seaplane bases and heliports, military facilities, and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally, this directory contains communications data, navigational facilities and certain special notices and procedures.

Military data contained within this publication is provided by the National Geospatial-Intelligence Agency and is intended to provide reference data for military and/or joint civil/military airports. Not all military data contained in this publication is applicable to civil users.

#### CORRECTIONS, COMMENTS, AND/OR PROCUREMENT

CRITICAL information such as equipment malfunction, abnormal field conditions, hazards to flight, etc., should be reported as soon as possible to the nearest FAA facility, either in person or by reverse charge telephone call.

#### FOR AIRPORT SUPPLEMENT REVISIONS FORM VISIT WEB SITE: http://nfdc.faa.gov/portal/airportchanges.do

FAA, Aeronautical Information Services, ATO-R, Rm. 626

800 Independence Ave., SW

Washington, DC 20591

Telephone 1-866-295-8236 Fax 202-267-5322

Email 9-ATOR-HO-AIS-AIRPORTCHANGES@FAA.GOV

NOTICE: Changes must be received by the Aeronautical Information Services as soon as possible but not later than the "cut-off" dates listed below to assure publication on the desired effective date.

	Airport Information	Airspace Information*
Effective Date	Cut-off date	Cut-off date
17 Dec 09	4 Nov 09	15 Oct 09
11 Feb 10	30 Dec 09	10 Dec 09
8 Apr 10	24 Feb 10	4 Feb 10
3 Jun 10	21 Apr 10	1 Apr 10
29 Jul 10	16 Jun 10	27 May 10
23 Sep 10	11 Aug 10	22 Jul 10

<sup>\*</sup>Including changes to preferred routes and graphic depictions on charts.

#### FOR CHARTING ERRORS CONTACT:

ı

FAA, National Aeronautical Charting Office, ATO-W

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1305 East West Highway

Silver Spring, MD 20910-3281

Telephone 1–800–626–3677

Email 9-AMC-Aerochart@faa.gov

Frequently asked questions (FAQs) are answered on our web site at <a href="www.naco.faa.gov">www.naco.faa.gov</a>. See the FAQs prior to contact via toll free number.

#### FOR PROCUREMENT CONTACT:

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Distribution Division, ATO-W

10201 Good Luck Road

Glenn Dale, MD 20769-9700

Online at www.naco.faa.gov

Email 9-AMC-Chartsales@faa.gov

Telephone 1-800-638-8972

Fax 301-436-6829

or any authorized FAA Chart Agent

New or Changed Information—To alert users of new information or changes to information from the previous issue, a vertical line will be portrayed in the outside margin and extending the full length of the new and/or revised data. This will not apply to the front cover or the airport/facility directory listing.

This Airport/Facility Directory comprises part of the following sections of the United States Aeronautical Information Publication (AIP): GEN, ENR and AD.

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#### **ABBREVIATIONS**

The following abbreviations/acronyms are those commonly used within this Directory. Other abbreviations/acronyms may be found in the Legend and are not duplicated below. The abbreviations presented are intended to represent grammatical variations of the basic form. (Example—''req'' may mean ''request'', ''requesting'', ''requested'', or ''requests'').

		out, requesting,	requested, or requests ).
AAF	Army Air Field	byd	beyond
AB	Airbase	С	Commercial Circuit (Telephone)
abv	above	CGAF	Coast Guard Air Facility
ACC	Air Combat Command; Area Control	CGAS	Coast Guard Air Station
	Center	CIV	Civil
acft	aircraft	clsd	closed
ADCC	Air Defense Control Center	comd	command
AER	approach end rwy	CONUS	Continental United States
AFB	Air Force Base	CSTMS	Customs
AFHP	Air Force Heliport	ctc	contact
afld	airfield	ctl	control
AFOD	US Army Flight Operations Detachment	dalgt	daylight
AFRC	Armed Forces Reserve Center/Air Force	Dec	December
	Reserve Command	DIAP	DoD Instrument Approach Procedure
AFSS	Automated Flight Service Station	DoD	Department of Defense
AG	Agriculture	DSN	Defense Switching Network (Telephone)
A-GEAR	Arresting Gear	dsplcd	displaced
AGL	above ground level	durn	duration
AHP	Army heliport	eff	effective
ALS	Approach Light System	emerg	emergency
alt	altitude	EOR	End of Runway
AMC	Air Mobility Command	ETA	Estimated Time of Arrival
ANGS	Air National Guard Station	ETD	Estimated Time of Departure
apch	approach	exc	except
Apr	April	extd	extend
APU	Auxiliary Power Unit	FB0	fixed-base operator
ARB	Air Reserve Base	Feb	February
arpt	airport	fld	field
ARS	Air Reserve Station	FLIP	Flight Information Publication
AS	Air Station	flt	flight
ASDE-X	Airport Surface Detection Equipment—	flw	follow
	Model X	Fri	Friday
ASU	Aircraft Starting Unit	FSS	Flight Service Station
ATC	Air Traffic Control	GA	glide angle
Aug	August	GCA	Ground Controlled Approach
AUW	All Up Weight (gross weight)	GS	glide slope
avbl	available	haz	hazard
bcn	beacon	HQ	Headquarters
blo	below		

#### CONTINUED ON NEXT PAGE

#### CONTINUED FROM PRECEDING PAGE

hr hour non precision instrument ΙΔΡ Instrument Approach Procedure NS ABTMT Noise Abatement ICAC International Civil Aviation Organization NSTD nonstandard IFR Instrument Flight Rules ntc notice ILS Instrument Landing System obsn observation IM Inner Marker Oct October IMG Immigration OI F Outlying Field

incr increase onr operate, operator, operational

indet indefinite ons operations intensity OTS out of service ints invof in the vicinity of ovrn overrun

personnel and equipment working IMC Instrument Meteorological Conditions PAFW

lan nat pattern Jet Aircraft Starting Unit IASI p-line power line JOAP Joint Oil Analysis Program **PMSV** Pilot-to-Metro Service

IOSAC Joint Operational Support Airlift Center PΩI Petrol, Oils and Lubricants IRB Joint Reserve Base PPR prior permission required Jul July PRM Precision Runway Monitoring Jun June PTD Pilot to Dispatcher

Κt Knots RAMCC Regional Air Movement Control Center

LAA Local Airport Advisory rea request LAHSO Land and Hold Short Operations rgt tfc right traffic RON Remain Overnight lhs nounds ldg landing rar require lighted rstd lgtd restricted

RSRS løts lights reduced same runway separation

LMM Compass locator at Middle Marker ILS rwv runway LOC Localizer Sat Saturday

LOM Compass locator at Outer Marker ILS SFLE Strategic Expeditionary Landing Field

SFA

Single Frequency Approach

taxiway

limited Sen Itd September

March efe Mar surface

SFRA MCAF Marine Corps Air Facility Special Flight Rules Area

Military Area Control Center

MACC

NAEC

SOAP MCALE Marine Corps Auxiliary Landing Field Spectrometric Oil Analysis Program

SOF Supervisor of Flying MCAS Marine Corps Air Station

Marine Corps Base SPR MCB Seaplane Base SP med medium sunrise SS METRO Pilot-to-Metro voice call sunset Mil military std standard min minute Sur Sunday

MLS Microwave Landing System SVC service MM Middle Marker of ILS tfc traffic Mon Monday thld threshold MP Maintenance Period Thu Thursday MSI mean sea level tkf take-off MSAW minimum safe altitude warning tmnrv temporary NAAS Naval Auxiliary Air Station tran transient NADC Naval Air Development Center Tue Tuesday NADER Naval Air Depot twr tower Naval Air Engineering Center

NAFS Naval Air Engineering Station UC **Under Construction** Naval Air Facility USA United States Army NAF NALCO Naval Air Logistics Control Office USAF United States Air Force USCG NALO Navy Air Logistics Office United States Coast Guard

twv

NALE Naval Auxiliary Landing Field USN United States Navy NAS Naval Air Station Defense Switching Network (telephone,

NAWC Naval Air Warfare Center formerly AUTOVON) NAWS Naval Air Weapons Station VFR Visual Flight Rules VIP night Very Important Person ngt

NOLF Naval Outlying Field VMC Visual Meteorological Conditions

Nov November Wed Wednesday wx weather

#### SAMPI F CITY NAME AIRPORT NAME (ALTERNATE NAME) (LTS) (KLTS) CIV/MIL 3 N UTC-6(-5DT) N34°41.93′ W99°20.20′ JACKSONVILLE S4 FUEL 100 OX 1 TPA-1000(800) AOE Class IV. ARFF Index A NOTAM FILE ORL Not insp. H-4G I-19C (19) (20) IAP. DIAP. AD (11)(12)(13)(14)(15)(16)(18)(21) RWY 18-36: H12004X200 (ASPH-CONC-GRVD) 9 S-90, D-160, DT-300 PCN 80 R/B/W/T HIRL RWY 18: LDIN, MALSF, TDZL, REIL, PAPI(P2R)-GA 3.0° TCH 36'. Rwy 173-353: 3515 X 150 Thid dspicd 300'. Trees. Rgt tfc. 0.3% up. RWY 36: ALSF1. 0.4% down. 81 Č ä RWY 09-27: H6000X150 (ASPH) MIRL G G 000 RWY 173-353: H3515X150 (ASPH-PFC) AUW PCN 59 F/A/W/T 113 LAND AND HOLD SHORT OPERATIONS Ø €3 DIST AVRI HOLD SHORT POINT LANDING Ø C3 €3 €3 **RWY 18** 09-27 6500 2004 X **RWY 36** 09-27 5400 8 RUNWAY DECLARED DISTANCE INFORMATION 353 RWY 18: TORA-12004 TODA-12704 ASDA-11704 LDA-11504 q١ RWY 36: TORA-12004 TODA-12004 ASDA-12004 LDA-11704 6000 X 150 ARRESTING GEAR/SYSTEM RWY 18 → HOOK E5 (65' OVRN) BAK-14 BAK-12B (1650') BAK-14 BAK-12 (B) (1087') HOOK E5 (74' OVRN) ← RWY 36 MILITARY SERVICE: A-GEAR E-5 connected on dep end, disconnected on JASU 3(AM32A-60) 2(A/M32A-86) apch end. 33 36 (24) (25)→ FUEL J8(Mil) (NC-100, A) FLUID W SP PRESAIR LOX ← (10) OIL 0-128 TRAN ALERT Avbl 1300-0200Z‡, svc limited weekends. 27 (28 AIRPORT REMARKS: Special Air Traffic Rules—Part 93, see Regulatory Notices. Attended 1200-0300Z‡. Parachute Jumping, Deer invof arpt, Heavy jumbo jet training surface to 9000', Twy A clsd indef. Flight Notification Service (ADCUS) avbl. (30) MILITARY REMARKS: ANG PPR/Official Business Only. Base OPS DSN 638-4390, C503-335-4222. Ctc Base OPS 15 minutes prior to Idg and after dep. Limited tran parking. WEATHER DATA SOURCES: AWOS-1 120.3 (202) 426-8000. LLWAS. COMMUNICATIONS: SFA ATIS 127.25 273.5 (202) 426-8003 UNICOM 122.95 PTD 372.2 NAME FSS (ORL) on arpt. 123.65 122.65 122.2 NAME RC0 112.2T 112.1R (NAME RADIO) R NAME APP/DEP CON 128.35 257.725 (1200-0400Z‡) TOWER 119.65 255.6 (1200-0400Z‡) GND CON 121.7 GCO 135.075 (ORLANDO CLNC) **CLNC DEL** 125.55 NAME COMD POST (GERONIMO) 311.0 321.4 6761 PMSV METRO 239.8 NAME OPS 257 5 (33)→ AIRSPACE: CLASS B See VFR Terminal Area Chart. RADIO AIDS TO NAVIGATION: NOTAM FILE ORL. VHF/DF ctc FSS. Chan 59 N28°32.55' W81°20.12' (H) VORTAC 112.2 MCO at fld. (H) TACAN Chan 29 CBU (109.2) N28°32.65′ W81°21.12′ at fld. 1115/8E. HERNY NDB (LOM) 221 OR N28°37.40′ W81°21.05′ 177° 5.4 NM to fld.

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

Chan 22 Rwy 18.

HELIPAD H1: H100X75 (ASPH) HELIPAD H2: H60X60 (ASPH)

ILS/DME 108.5 I-ORL

ASR/PAR (1200-0400Z‡)

HELIPORT REMARKS: Helipad H1 lctd on general aviation side and H2 lctd on air carrier side of arpt.

187 TPA 1000(813)

WATERWAY 15-33: 5000X425 (WATER)

**SEAPLANE REMARKS:** Birds roosting and feeding areas along river banks. Seaplanes operating adjacent to SW side of arpt not visible from twr and are required to ctc twr.

Class IIE.

LOM HERNY NDB

All bearings and radials are magnetic unless otherwise specified.
All mileages are nautical unless otherwise noted.
All times are Coordinated Universal Time (UTC) except as noted.
All elevations are in feet above/below Mean Sea Level (MSL) unless otherwise noted.
The horizontal reference datum of this publication is North American Datum of 1983 (NAD83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

10 SKETC	H LEGEND
runways/landing areas	RADIO AIDS TO NAVIGATION
Hard Surfaced	VORTAC
Metal Surface	VOR/DME NDB
Sod, Gravel, etc	TACAN NDB/DME
Light Plane,	MISCELLANEOUS AERONAUTICAL FEATURES
Closed	Airport Beacon
Helicopter Landings Area H	Landing Tee ⊢
Displaced Threshold 0	Tetrahedron         ►           Control Tower         S
Taxiway, Apron and Stopways	A DDD O A CILLICUTINIC CVCTEAC
MISCELLANEOUS BASE AND CULTURAL FEATURES	APPROACH LIGHTING SYSTEMS  A dot " • " portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting
Buildings	system e.g. (A) Negative symbology, e.g., (A) vindicates Pilot Controlled Lighting (PCL).
Power Lines	Runway Centerline Lighting
Fence	Approach Lighting System ALSF-2
Towers	Approach Lighting System ALSF-1
Tanks	SALS/SALSF
Oil Well	Medium Intensity Approach Lighting System (MALS and MALSF)/(SSALS
Smoke Stack	A Medium Intensity Approach Lighting
Obstruction	System (MALSR) and RAIL
Controlling Obstruction	D Navy Parallel Row and Cross Bar
ପ ଓ ଓ ଓ ଓ Trees	Air Force Overrun
Populated Places	Standard Threshold Clearance provided     Pulsating Visual Approach Slope Indicator     (PVASI)
Cuts and Fills Cut	Visual Approach Slope Indicator with a threshold crossing height to accomodate long bodied or jumbo aircraft
Cliffs and Depressions	Tri-color Visual Approach Slope Indicator (TRCV)
Ditch	(Vs) Approach Path Alignment Panel (APAP)
Hill	P Precision Approach Path Indicator (PAPI)

#### LEGEND

This directory is a listing of data on record with the FAA on all open to the public airports, military facilities and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally this listing contains data for associated terminal control facilities, air route traffic control centers, and radio aids to navigation within the conterminous United States, Puerto Rico and the Virgin Islands. Joint civil/military and civil airports are listed alphabetically by state, associated city and airport name and cross-referenced by airport name. Military facilities are listed alphabetically by state and official airport name and cross-referenced by associated city name. Navaids, flight service stations and remote communication outlets that are associated with an airport, but with a different name, are listed alphabetically under their own name, as well as under the airport with which they are associated.

The listing of an open to the public airport in this directory merely indicates the airport operator's willingness to accommodate transient aircraft, and does not represent that the facility conforms with any Federal or local standards, or that it has been approved for use on the part of the general public. Military and private use facilities published in this directory are open to civil pilots only in an emergency or with prior permission. See Special Notice Section, Civil Use of Military Fields.

The information on obstructions is taken from reports submitted to the FAA. Obstruction data has not been verified in all cases, Pilots are cautioned that objects not indicated in this tabulation (or on the airports sketches and/or charts) may exist which can create a hazard to flight operation. Detailed specifics concerning services and facilities tabulated within this directory are contained in the Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

The legend items that follow explain in detail the contents of this Directory and are keyed to the circled numbers on the sample on the preceding pages.

### 1 CITY/AIRPORT NAME

Civil and joint civil/military airports and facilities in this directory are listed alphabetically by state and associated city. Where the city name is different from the airport name the city name will appear on the line above the airport name. Airports with the same associated city name will be listed alphabetically by airport name and will be separated by a dashed rule line. A solid rule line will separate all others. FAA approved helipads and seaplane landing areas associated with a land airport will be separated by a dotted line. Military airports are listed alphabetically by state and official airport name.

# 2 ALTERNATE NAME

Alternate names, if any, will be shown in parentheses.

#### (3) LOCATION IDENTIFIER

The location identifier is a three or four character FAA code followed by a four-character ICAO code assigned to airports. ICAO codes will only be published at joint civil/military, and military facilities. If two different military codes are assigned, both codes will be shown with the primary operating agency's code listed first. These identifiers are used by ATC in lieu of the airport name in flight plans, flight strips and other written records and computer operations. Zeros will appear with a slash to differentiate them from the letter "O".

# (4) OPERATING AGENCY

Airports within this directory are classified into two categories, Military/Federal Government and Civil airports open to the general public, plus selected private use airports. The operating agency is shown for military, private use and joint civil/military airports. The operating agency is shown by an abbreviation as listed below. When an organization is a tenant, the abbreviation is enclosed in parenthesis. No classification indicates the airport is open to the general public with no military tenant.

Α US Army MC Marine Corps AFRC Air Force Reserve Command N Navv US Air Force Naval Air Facility ΔF NAF ANG Air National Guard NAS Naval Air Station

AR US Army Reserve NASA National Air and Space Administration
ARNG US Army National Guard P US Civil Airport Wherein Permit Covers
CG US Coast Guard Use by Transient Military Aircraft
CIV/MIL Joint Use Civil/Military PVT Private Use Only (Closed to the Public)

DND Department of National Defense Canada

# (5) AIRPORT LOCATION

Airport location is expressed as distance and direction from the center of the associated city in nautical miles and cardinal points, e.g., 4 NE.

# (6) TIME CONVERSION

Hours of operation of all facilities are expressed in Coordinated Universal Time (UTC) and shown as "Z" time. The directory indicates the number of hours to be subtracted from UTC to obtain local standard time and local daylight saving time UTC-5(-4DT). The symbol ‡ indicates that during periods of Daylight Saving Time effective hours will be one hour earlier than shown. In those areas where daylight saving time is not observed the (-4DT) and ‡ will not be shown. Daylight saving time is in effect from 0200 local time the second Sunday in March to 0200 local time the first Sunday in November. Canada and all U.S. Conterminous States observe daylight saving time except Arizona and Puerto Rico, and the Virgin Islands. If the state observes daylight saving time and the operating times are other than daylight saving times, the operating hours will include the dates, times and no ‡ symbol will be shown, i.e., April 15-Aug 31 0630-1700Z, Sep 1-Apr 14 0600-1700Z.

# **7** GEOGRAPHIC POSITION OF AIRPORT—AIRPORT REFERENCE POINT (ARP)

Positions are shown as hemisphere, degrees, minutes and hundredths of a minute and represent the approximate geometric center of all usable runway surfaces.

# 8 CHARTS

Charts refer to the Sectional Chart and Low and High Altitude Enroute Chart and panel on which the airport or facility is located. Helicopter Chart locations will be indicated as COPTER. IFR Gulf of Mexico West and IFR Gulf of Mexico Central will be depicted as GOMW and GOMC.

# (9) INSTRUMENT APPROACH PROCEDURES, AIRPORT DIAGRAMS

IAP indicates an airport for which a prescribed (Public Use) FAA Instrument Approach Procedure has been published. DIAP indicates an airport for which a prescribed DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures. See the Special Notice Section of this directory, Civil Use of Military Fields and the Aeronautical Information Manual 5–4–5 Instrument Approach Procedure Charts for additional information. AD indicates an airport for which an airport diagram has been published. Airport diagrams are located in the back of each A/FD volume alphabetically by associated city and airport name.

# 10 AIRPORT SKETCH

The airport sketch, when provided, depicts the airport and related topographical information as seen from the air and should be used in conjunction with the text. It is intended as a guide for pilots in VFR conditions. Symbology that is not self-explanatory will be reflected in the sketch legend. The airport sketch will be oriented with True North at the top. Airport sketches will be added incrementally.

# (11) ELEVATION

The highest point of an airport's usable runways measured in feet from mean sea level. When elevation is sea level it will be indicated as "00". When elevation is below sea level a minus "-" sign will precede the figure.

# (12) ROTATING LIGHT BEACON

B indicates rotating beacon is available. Rotating beacons operate sunset to sunrise unless otherwise indicated in the AIRPORT REMARKS or MILITARY REMARKS segment of the airport entry.

# (13) SERVICING—CIVIL

S1:	Minor airframe repairs.	S5:	Major airframe repairs.
S2:	Minor airframe and minor powerplant repairs.	S6:	Minor airframe and major powerplant repairs.
S3:	Major airframe and minor powerplant repairs.	S7:	Major powerplant repairs.
S4:	Major airframe and major powerplant repairs.	S8:	Minor powerplant repairs.
$\sim$			

# (14) FUEL

CODE	FUEL	CODE	FUEL
80	Grade 80 gasoline (Red)	B+	Jet B, Wide-cut, turbine fuel with FS-II*, FP**
100	Grade 100 gasoline (Green)		minus 50° C.
100LL	100LL gasoline (low lead) (Blue)	J4 (JP4)	(JP-4 military specification) FP** minus
115	Grade 115 gasoline (115/145 military		58° C.
	specification) (Purple)	J5 (JP5)	(JP-5 military specification) Kerosene with
A	Jet A, Kerosene, without FS-II*, FP** minus		FS-11, FP** minus 46°C.
	40° C.	J8 (JP8)	(JP-8 military specification) Jet A-1, Kerosene
A+	Jet A, Kerosene, with FS-II*, FP** minus		with FS-II*, FP** minus 47°C.
	40°C.	J8+100	(JP-8 military specification) Jet A-1, Kerosene
A1	Jet A-1, Kerosene, without FS-II*, FP**		with FS-II*, FP** minus 47°C, with-fuel
	minus 47°C.		additive package that improves thermo
A1+	Jet A-1, Kerosene with FS-II*, FP** minus		stability characteristics of JP-8.
	47° C.	J	(Jet Fuel Type Unknown)
В	Jet B, Wide-cut, turbine fuel without FS-II*,	MOGAS	Automobile gasoline which is to be used
	FP** minus 50° C.		as aircraft fuel.

<sup>\*(</sup>Fuel System Icing Inhibitor)

NOTE: Certa

Certain automobile gasoline may be used in specific aircraft engines if a FAA supplemental type certificate has been obtained. Automobile gasoline, which is to be used in aircraft engines, will be identified as "MOGAS", however, the grade/type and other octane rating will not be published.

Data shown on fuel availability represents the most recent information the publisher has been able to acquire. Because of a variety of factors, the fuel listed may not always be obtainable by transient civil pilots. Confirmation of availability of fuel should be made directly with fuel suppliers at locations where refueling is planned.

# 15 OXYGEN—CIVIL

OX 1 High Pressure OX 3 High Pressure—Replacement Bottles
OX 2 Low Pressure OX 4 Low Pressure—Replacement Bottles

# 16 TRAFFIC PATTERN ALTITUDE

Traffic Pattern Altitude (TPA)—The first figure shown is TPA above mean sea level. The second figure in parentheses is TPA above airport elevation. Multiple TPA shall be shown as "TPA—See Remarks" and detailed information shall be shown in the Airport or Military Remarks Section. Traffic pattern data for USAF bases, USN facilities, and U.S. Army airports (including those on which ACC or U.S. Army is a tenant) that deviate from standard pattern altitudes shall be shown in Military Remarks.

<sup>\*\*(</sup>Freeze Point)

# 17

#### $^{7}$ airport of entry. Landing rights, and customs user fee airports

U.S. CUSTOMS USER FEE AIRPORT—Private Aircraft operators are frequently required to pay the costs associated with customs processing.

AOE—Airport of Entry. A customs Airport of Entry where permission from U.S. Customs is not required to land. However, at least one hour advance notice of arrival is required.

LRA—Landing Rights Airport. Application for permission to land must be submitted in advance to U.S. Customs. At least one hour advance notice of arrival is required.

NOTE: Advance notice of arrival at both an AOE and LRA airport may be included in the flight plan when filed in Canada or Mexico. Where Flight Notification Service (ADCUS) is available the airport remark will indicate this service. This notice will also be treated as an application for permission to land in the case of an LRA. Although advance notice of arrival may be relayed to Customs through Mexico, Canada, and U.S. Communications facilities by flight plan, the aircraft operator is solely responsible for ensuring that Customs receives the notification. (See Customs, Immigration and Naturalization, Public Health and Agriculture Department requirements in the International Flight Information Manual for further details.)

US Customs Air and Sea Ports, Inspectors and Agents

Northeast Sector (New England and Atlantic States—ME to MD)	407-975-1740
Southeast Sector (Atlantic States—DC, WV, VA to FL)	407-975-1780
Central Sector (Interior of the US, including Gulf states—MS, AL, LA)	407-975-1760
Southwest East Sector (OK and eastern TX)	407-975-1840
Southwest West Sector (Western TX, NM and AZ)	407-975-1820
Pacific Sector (WA, OR, CA, HI and AK)	407-975-1800

### (18) CERTIFICATED AIRPORT (14 CFR PART 139)

Airports serving Department of Transportation certified carriers and certified under 14 CFR part 139 are indicated by the Class and the ARFF Index; e.g. Class I, ARFF Index A, which relates to the availability of crash, fire, rescue equipment. Class I airports can have an ARFF Index A through E, depending on the aircraft length and scheduled departures. Class II, III, and IV will always carry an Index A.

# 14 CFR PART 139 CERTIFICATED AIRPORTS AIRPORT CLASSIFICATIONS

Type of Air Carrier Operation	Class I	Class II	Class III	Class IV
Scheduled Air Carrier Aircraft with 31 or more passenger seats	Х			
Unscheduled Air Carrier Aircraft with 31 or more passengers seats	Х	Х		Х
Scheduled Air Carrier Aircraft with 10 to 30 passenger seats	Х	Х	Х	

## 14 CFR-PART 139 CERTIFICATED AIRPORTS

#### INDICES AND AIRCRAFT RESCUE AND FIRE FIGHTING EQUIPMENT REQUIREMENTS

Airport Index	Required No. Vehicles	Aircraft Length	Scheduled Departures	Agent + Water for Foam
Α	1	<90'	≥1	500#DC or HALON 1211 or 450#DC + 100 gal $H_2O$
В	1 or 2	≥90′, <126′	≥5	Index A + 1500 gal H <sub>2</sub> O
		≥126′, <159′	<5	
С	2 or 3	≥126′, <159′	≥5	Index A + 3000 gal H <sub>2</sub> O
		≥159′, <200′	<5	
D	3	≥159′, <200′		Index A + 4000 gal H <sub>2</sub> O
		>200′	<5	
E	3	≥200′	≥5	Index A + 6000 gal H <sub>2</sub> O

<sup>&</sup>gt; Greater Than; < Less Than; ≥ Equal or Greater Than; ≤ Equal or Less Than; H<sub>2</sub>O-Water; DC-Dry Chemical.

NOTE: The listing of ARFF index does not necessarily assure coverage for non-air carrier operations or at other than prescribed times for air carrier. ARFF Index Ltd.—indicates ARFF coverage may or may not be available, for information contact airport manager prior to flight.

# 19 NOTAM SERVICE

All public use landing areas are provided NOTAM "D" (distant dissemination) and NOTAM "L" (local dissemination) service. Airport NOTAM file identifier is shown for individual airports, e.g. "NOTAM FILE IAD". See AIM, Basic Flight Information and

ATC Procedures for detailed description of NOTAM's. Current NOTAMs are available from Flight Service Stations at 1–800–WX–BRIEF. Real time Military NOTAMs are available using the DoD Internet NOTAM Distribution System (DINS) www.notams.jcs.mil.

# 20 FAA INSPECTION

All airports not inspected by FAA will be identified by the note: Not insp. This indicates that the airport information has been provided by the owner or operator of the field.

# 21 RUNWAY DATA

Runway information is shown on two lines. That information common to the entire runway is shown on the first line while information concerning the runway ends is shown on the second or following line. Runway direction, surface, length, width, weight bearing capacity, lighting, and slope, when available are shown for each runway. Multiple runways are shown with the longest runway first. Direction, length, width, and lighting are shown for sea-lanes. The full dimensions of helipads are shown, e.g., 50X150. Runway data that requires clarification will be placed in the remarks section.

#### RUNWAY DESIGNATION

Runways are normally numbered in relation to their magnetic orientation rounded off to the nearest 10 degrees. Parallel runways can be designated L (left)/R (right)/C (center). Runways may be designated as Ultralight or assault strips. Assault | strips are shown by magnetic bearing.

#### RUNWAY DIMENSIONS

Runway length and width are shown in feet. Length shown is runway end to end including displaced thresholds, but excluding those areas designed as overruns.

#### RUNWAY SURFACE AND LENGTH

Runway lengths prefixed by the letter "H" indicate that the runways are hard surfaced (concrete, asphalt, or part asphalt–concrete). If the runway length is not prefixed, the surface is sod, clay, etc. The runway surface composition is indicated in parentheses after runway length as follows:

(AFSC)—Aggregate friction seal coat	(GRVL)—Gravel, or cinders	(PSP)—Pierced steel plank
(ASPH)—Asphalt	(MATS)—Pierced steel planking,	(RFSC)—Rubberized friction seal coat
(CONC)—Concrete	landing mats, membranes	(TURF)—Turf
(DIRT)—Dirt	(PEM)—Part concrete, part asphalt	(TRTD)—Treated
(GRVD)—Grooved	(PFC)—Porous friction courses	(WC)—Wire combed

#### RUNWAY WEIGHT BEARING CAPACITY

Runway strength data shown in this publication is derived from available information and is a realistic estimate of capability at an average level of activity. It is not intended as a maximum allowable weight or as an operating limitation. Many airport pavements are capable of supporting limited operations with gross weights in excess of the published figures. Permissible operating weights, insofar as runway strengths are concerned, are a matter of agreement between the owner and user. When desiring to operate into any airport at weights in excess of those published in the publication, users should contact the airport management for permission. Runway strength figures are shown in thousand of pounds, with the last three figures being omitted. Add 000 to figure following S, D, 2S, 2T, AUW, SWL, etc., for gross weight capacity. A blank space following the letter designator is used to indicate the runway can sustain aircraft with this type landing gear, although definite runway weight bearing capacity figures are not available, e.g., S, D. Applicable codes for typical gear configurations with S=Single, D=Dual, T=Triple and Q=Quadruple:

CURRENT	NEW	NEW DESCRIPTION
S	S	Single wheel type landing gear (DC3), (C47), (F15), etc.
D	D	Dual wheel type landing gear (BE1900), (B737), (A319), etc.
T	D	Dual wheel type landing gear (P3, C9).
ST	28	Two single wheels in tandem type landing gear (C130).
TRT	2T	Two triple wheels in tandem type landing gear (C17), etc.
DT	2D	Two dual wheels in tandem type landing gear (B707), etc.
TT	2D	Two dual wheels in tandem type landing gear (B757,
		KC135).
SBTT	2D/D1	Two dual wheels in tandem/dual wheel body gear type
		landing gear (KC10).
None	2D/2D1	Two dual wheels in tandem/two dual wheels in tandem body
		gear type landing gear (A340–600).
DDT	2D/2D2	Two dual wheels in tandem/two dual wheels in double
		tandem body gear type landing gear (B747, E4).
TTT	3D	Three dual wheels in tandem type landing gear (B777), etc.
TT	D2	Dual wheel gear two struts per side main gear type landing
		gear (B52).
TDT	C5	Complex dual wheel and quadruple wheel combination
		landing gear (C5).

AUW—All up weight. Maximum weight bearing capacity for any aircraft irrespective of landing gear configuration.

SWL—Single Wheel Loading. (This includes information submitted in terms of Equivalent Single Wheel Loading (ESWL) and Single Isolated Wheel Loading).

PSI—Pounds per square inch. PSI is the actual figure expressing maximum pounds per square inch runway will support, e.g., (SWL 000/PSI 535).

Omission of weight bearing capacity indicates information unknown.

The ACN/PCN System is the ICAO standard method of reporting pavement strength for pavements with bearing strengths greater than 12,500 pounds. The Pavement Classification Number (PCN) is established by an engineering assessment of the runway. The PCN is for use in conjunction with an Aircraft Classification Number (ACN). Consult the Aircraft Flight Manual, Flight Information Handbook, or other appropriate source for ACN tables or charts. Currently, ACN data may not be available or all aircraft. If an ACN table or chart is available, the ACN can be calculated by taking into account the aircraft weight, the pavement type, and the subgrade category. For runways that have been evaluated under the ACN/PCN system, the PCN will be shown as a five-part code (e.g. PCN 80 R/B/W/T). Details of the coded format are as follows:

- (1) The PCN NUMBER—The reported PCN indicates that an aircraft with an ACN equal or less than the reported PCN can operate on the pavement subject to any limitation on the tire pressure.
- (2) The type of pavement:
  - R Rigid
  - F Flexible
- (3) The pavement subgrade category:
  - A High
  - B Medium
  - C Low
  - D Ultra-low

- (4) The maximum tire pressure authorized for the pavement:
  - W High, no limit
  - X Medium, limited to 217 psi
  - Y Low, limited to 145 psi Z — Very low, limited to 73 psi
- (5) Pavement evaluation method:
  - T Technical evaluation
  - U By experience of aircraft using the pavement

NOTE: Prior permission from the airport controlling authority is required when the ACN of the aircraft exceeds the published PCN or aircraft tire pressure exceeds the published limits.

#### RUNWAY LIGHTING

Lights are in operation sunset to sunrise. Lighting available by prior arrangement only or operating part of the night and/or pilot controlled lighting with specific operating hours are indicated under airport or military remarks. At USN/USMC facilities lights are available only during airport hours of operation. Since obstructions are usually lighted, obstruction lighting is not included in this code. Unlighted obstructions on or surrounding an airport will be noted in airport or military remarks. Runway lights nonstandard (NSTD) are systems for which the light fixtures are not FAA approved L-800 series: color, intensity, or spacing does not meet FAA standards. Nonstandard runway lights, VASI, or any other system not listed below will be shown in airport remarks or military service. Temporary, emergency or limited runway edge lighting such as flares, smudge pots, lanterns or portable runway lights will also be shown in airport remarks or military service. Types of lighting are shown with the runway or runway end they serve.

NSTD—Light system fails to meet FAA standards.

LIRL—Low Intensity Runway Lights.

MIRL—Medium Intensity Runway Lights.

HIRL—High Intensity Runway Lights.

RAIL—Runway Alignment Indicator Lights.

REIL—Runway End Identifier Lights.

CL—Centerline Lights.

TDZL—Touchdown Zone Lights.

ODALS-Omni Directional Approach Lighting System.

AF OVRN-Air Force Overrun 1000' Standard

Approach Lighting System.

LDIN-Lead-In Lighting System.

MALS-Medium Intensity Approach Lighting System.

MALSF—Medium Intensity Approach Lighting System with Sequenced Flashing Lights.

MALSR—Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights.

SALS-Short Approach Lighting System.

SALSF—Short Approach Lighting System with Sequenced Flashing Lights.

SSALS—Simplified Short Approach Lighting System.

SSALF—Simplified Short Approach Lighting System with Sequenced Flashing Lights.

SSALR—Simplified Short Approach Lighting System with Runway Alignment Indicator Lights.

ALSAF—High Intensity Approach Lighting System with Sequenced Flashing Lights.

ALSF1—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category I, Configuration.

ALSF2—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category II, Configuration.

SF-Sequenced Flashing Lights.

OLS-Optical Landing System.

WAVE-OFF.

NOTE: Civil ALSF2 may be operated as SSALR during favorable weather conditions. When runway edge lights are positioned more than 10 feet from the edge of the usable runway surface a remark will be added in the "Remarks" portion of the airport entry. This is applicable to Air Force, Air National Guard and Air Force Reserve Bases, and those joint civil/military airfields on which they are tenants.

#### VISUAL GLIDESLOPE INDICATORS

APAP—A sys	stem of panels, which may or may not be lighted, used fo	r alignme	ent of approach path.
PNIL	APAP on left side of runway	PNIR	APAP on right side of runway
PAPI—Precis	sion Approach Path Indicator		
P2L	2-identical light units placed on left side of	P4L	4-identical light units placed on left side of
	runway		runway
P2R	2-identical light units placed on right side of	P4R	4-identical light units placed on right side of
	runway		runway
PVASI—Puls	sating/steady burning visual approach slope indicator, no	rmally a	single light unit projecting two colors.
PSIL	PVASI on left side of runway	PSIR	PVASI on right side of runway
SAVASI—Sir	mplified Abbreviated Visual Approach Slope Indicator		
S2L	2-box SAVASI on left side of runway	S2R	2-box SAVASI on right side of runway

TRCV—Tri-color visual approach slope indicator, normally a single light unit projecting three colors.

TRIL	TRCV on left side of runway	TRIR	TRCV on right side of runway
VASI—Visua	I Approach Slope Indicator		
V2L	2-box VASI on left side of runway	V6L	6-box VASI on left side of runway
V2R	2-box VASI on right side of runway	V6R	6-box VASI on right side of runway
V4L	4-box VASI on left side of runway	V12	12-box VASI on both sides of runway
V4R	4-box VASI on right side of runway	V16	16-box VASI on both sides of runway

NOTE: Approach slope angle and threshold crossing height will be shown when available; i.e., -GA 3.5° TCH 37'.

#### PILOT CONTROL OF AIRPORT LIGHTING

Key Mike	Function
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-Off)
3 times within 5 seconds	Lowest intensity available
	(Lower REIL or REIL-Off)

Available systems will be indicated in the airport or military remarks, e.g., ACTIVATE HIRL Rwy 07–25, MALSR Rwy 07, and VASI Rwy 07—122.8.

Where the airport is not served by an instrument approach procedure and/or has an independent type system of different specification installed by the airport sponsor, descriptions of the type lights, method of control, and operating frequency will be explained in clear text. See AIM, "Basic Flight Information and ATC Procedures," for detailed description of pilot control of airport lighting.

When available, runway slope data will only be provided for those airports with an approved FAA instrument approach procedure. Runway slope will be shown only when it is 0.3 percent or greater. On runways less than 8000 feet, the direction of the slope up will be indicated, e.g., 0.3% up NW. On runways 8000 feet or greater, the slope will be shown (up or down) on the runway end line, e.g., RWY 13: 0.3% up., RWY 21: Pole. Rgt tfc. 0.4% down.

#### RUNWAY END DATA

Information pertaining to the runway approach end such as approach lights, touchdown zone lights, runway end identification lights, visual glideslope indicators, displaced thresholds, controlling obstruction, and right hand traffic pattern, will be shown on the specific runway end. "Rgt tfc"—Right traffic indicates right turns should be made on landing and takeoff for specified runway end.

#### LAND AND HOLD SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for "Land and Hold Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet.

Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The Aeronautical Information Manual contains specific details on hold–short operations and markings.

#### RUNWAY DECLARED DISTANCE INFORMATION

TORA—Take-off Run Available. The length of runway declared available and suitable for the ground run of an aeroplane take-off

TODA—Take-off Distance Available. The length of the take-off run available plus the length of the clearway, if provided.

ASDA—Accelerate-Stop Distance Available. The length of the take-off run available plus the length of the stopway, if provided. LDA—Landing Distance Available. The length of runway which is declared available and suitable for the ground run of an aeroplane landing.

# (22) ARRESTING GEAR/SYSTEMS

Arresting gear is shown as it is located on the runway. The a–gear distance from the end of the appropriate runway (or into the overrun) is indicated in parentheses. A–Gear which has a bi–direction capability and can be utilized for emergency approach end engagement is indicated by a (B). The direction of engaging device is indicated by an arrow. Up to 15 minutes advance notice may be required for rigging A–Gear for approach and engagement. Airport listing may show availability of other than US Systems. This information is provided for emergency requirements only. Refer to current aircraft operating manuals for specific engagement weight and speed criteria based on aircraft structural restrictions and arresting system limitations.

Following is a list of current systems referenced in this publication identified by both Air Force and Navy terminology:

BI-DIRECTIONAL CABLE (B)

12

<u>TYPE</u> <u>DESCRIPTION</u>

BAK-9 Rotary friction brake.

BAK-12A Standard BAK-12 with 950 foot run out, 1-inch cable and 40,000 pound weight setting. Rotary

friction brake.

BAK-12B Extended BAK-12 with 1200 foot run, 1¼ inch Cable and 50,000 pounds weight setting. Rotary

friction brake.

E28 Rotary Hydraulic (Water Brake).
M21 Rotary Hydraulic (Water Brake) Mobile.

The following device is used in conjunction with some aircraft arresting systems:

BAK-14 A device that raises a hook cable out of a slot in the runway surface and is remotely positioned

for engagement by the tower on request. (In addition to personnel reaction time, the system

requires up to five seconds to fully raise the cable.)

H A device that raises a hook cable out of a slot in the runway surface and is remotely positioned

for engagement by the tower on request. (In addition to personnel reaction time, the system

requires up to one and one-half seconds to fully raise the cable.)

UNI-DIRECTIONAL CABLE

TYPE DESCRIPTION

MB60 Textile brake—an emergency one-time use, modular braking system employing the tearing of

specially woven textile straps to absorb the kinetic energy.

E5/E5-1/E5-3 Chain Type. At USN/USMC stations E-5 A-GEAR systems are rated, e.g., E-5 RATING-13R-1100

HW (DRY), 31L/R-1200 STD (WET). This rating is a function of the A-GEAR chain weight and length and is used to determine the maximum aircraft engaging speed. A dry rating applies to a stabilized surface (dry or wet) while a wet rating takes into account the amount (if any) of wet overrun that is not capable of withstanding the aircraft weight. These ratings are published under

Military Service.

FOREIGN CABLE

TYPE DESCRIPTION US EQUIVALENT

44B–3H Rotary Hydraulic) (Water Brake)

CHAG Chain E-5

UNI-DIRECTIONAL BARRIER

TYPE DESCRIPTION

MA-1A Web barrier between stanchions attached to a chain energy absorber.

BAK-15 Web barrier between stanchions attached to an energy absorber (water squeezer, rotary friction,

chain). Designed for wing engagement.

NOTE: Landing short of the runway threshold on a runway with a BAK-15 in the underrun is a significant hazard. The barrier in the down position still protrudes several inches above the underrun. Aircraft contact with the barrier short of the runway threshold can cause damage to the barrier and substantial damage to the aircraft.

OTHER

TYPE DESCRIPTION

EMAS Engineered Material Arresting System, located beyond the departure end of the runway, consisting of

high energy absorbing materials which will crush under the weight of an aircraft.

# 23 MILITARY SERVICE

Specific military services available at the airport are listed under this general heading. Remarks applicable to any military service are shown in the individual service listing.

# 24 JET AIRCRAFT STARTING UNITS (JASU)

The numeral preceding the type of unit indicates the number of units available. The absence of the numeral indicates ten or more units available. If the number of units is unknown, the number one will be shown. Absence of JASU designation indicates non-availability.

The following is a list of current JASU systems referenced in this publication:

USAF JASU (For variations in technical data, refer to T.O. 35-1-7.)

**ELECTRICAL STARTING UNITS:** 

A/M32A-86 AC: 115/200v, 3 phase, 90 kva, 0.8 pf, 4 wire

DC: 28v, 1500 amp, 72 kw (with TR pack)

MC-1A AC: 115/208v, 400 cycle, 3 phase, 37.5 kva, 0.8 pf, 108 amp, 4 wire

DC: 28v, 500 amp, 14 kw

MD-3 AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

DC: 28v, 1500 amp, 45 kw, split bus

MD-3A AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

DC: 28v, 1500 amp, 45 kw, split bus

MD-3M AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

DC: 28v, 500 amp, 15 kw

MD-4 AC: 120/208v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 175 amp, "WYE" neutral ground, 4 wire, 120v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 303 amp, "DELTA" 3 wire, 120v, 400 cycle, 1 phase, 62.5

kva, 0.8 pf, 520 amp, 2 wire

AIR STARTING UNITS

AM32–95 150 + / - 5 lb/min (2055 + / - 68 cfm) at 51 + / - 2 psia AM32A–95 150 + / - 5 lb/min @ 49 + / - 2 psia (35 + / - 2 psig)

LASS 150 +/- 5 lb/min @ 49 +/- 2 psia

MA-1A 82 lb/min (1123 cfm) at 130° air inlet temp, 45 psia (min) air outlet press

MC-1 15 cfm, 3500 psia MC-1A 15 cfm, 3500 psia MC-2A 15 cfm, 200 psia

MC-11 8,000 cu in cap, 4000 psig, 15 cfm

COMBINED AIR AND ELECTRICAL STARTING UNITS:

AGPU AC: 115/200v, 400 cycle, 3 phase, 30 kw gen

DC: 28v, 700 amp

AIR: 60 lb/min @ 40 psig @ sea level

AM32A-60\* AIR: 120 + -4 lb/min (1644 + -55 cfm) at 49 + -2 psia

AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire, 120v, 1 phase, 25 kva

DC: 28v, 500 amp, 15 kw

AM32A-60A AIR: 150 +/- 5 lb/min (2055 +/- 68 cfm at 51 +/- psia

AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire DC: 28v, 200 amp, 5.6 kw

AM32A-60B\* AIR: 130 lb/min, 50 psia

AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire

DC: 28v, 200 amp, 5.6 kw

\*NOTE: During combined air and electrical loads, the pneumatic circuitry takes preference and will limit the amount of electrical power available.

USN JASU

**ELECTRICAL STARTING UNITS:** 

NC-8A/A1 DC: 500 amp constant, 750 amp intermittent, 28v;

AC: 60 kva @ .8 pf, 115/200v, 3 phase, 400 Hz.

NC-10A/A1/B/C

DC: 750 amp constant, 1000 amp intermittent, 28v:

AC: 90 kva, 115/200v, 3 phase, 400 Hz.

AIR STARTING UNITS:

GTC-85/GTE-85 120 lbs/min @ 45 psi. MSU-200NAV/A/U47A-5 204 lbs/min @ 56 psia.

WELLS AIR START 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. Simultaneous multiple start capability.

SYSTEM

COMBINED AIR AND ELECTRICAL STARTING UNITS:

NCPP-105/RCPT 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. 700 amp, 28v DC. 120/208v, 400 Hz AC,

30 kva.

JASU (ARMY)

59B2–1B 28v, 7.5 kw, 280 amp.

OTHER JASU

ELECTRICAL STARTING UNITS (DND):

CE12 AC 115/200v, 140 kva, 400 Hz, 3 phase CE13 AC 115/200v, 60 kva, 400 Hz, 3 phase

CE14 AC/DC 1.15/200v, 140 kva, 400 Hz, 3 phase, 28vDC, 1500 amp
CE15 DC 22-35v, 500 amp continuous 1.100 amp intermittent
CE16 DC 22-35v, 500 amp continuous 1.100 amp intermittent soft start

AIR STARTING UNITS (DND):

CA2 ASA 45.5 psig, 116.4 lb/min COMBINED AIR AND ELECTRICAL STARTING UNITS (DND)

CEA1 AC 120/208v, 60 kva, 400 Hz, 3 phase DC 28v, 75 amp

AIR 112.5 lb/min, 47 psig

ELECTRICAL STARTING UNITS (OTHER)

C-26 28v 45kw 115-200v 15kw 380-800 Hz 1 phase 2 wire

C-26-B, C-26-C 28v 45kw: Split Bus: 115-200v 15kw 380-800 Hz 1 phase 2 wire

E3 DC 28v/10kw

AIR STARTING UNITS (OTHER):

A4 40 psi/2 lb/sec (LPAS Mk12, Mk12L, Mk12A, Mk1, Mk2B)

MA-1 150 Air HP, 115 lb/min 50 psia MA-2 250 Air HP, 150 lb/min 75 psia

CARTRIDGE:

MXU-4A USAF



Fuel available through US Military Base supply, DESC Into-Plane Contracts and/or reciprocal agreement is listed first and is followed by (Mil). At commercial airports where Into-Plane contracts are in place, the name of the refueling agent is shown. Military fuel should be used first if it is available. When military fuel cannot be obtained but Into-Plane contract fuel is available, Government aircraft must refuel with the contract fuel and applicable refueling agent to avoid any breach in contract terms and conditions. Fuel not available through the above is shown preceded by NC (no contract). When fuel is obtained from NC sources, local purchase procedures must be followed. The US Military Aircraft Identaplates DD Form 1896 (Jet Fuel), DD Form 1897 (Avgas) and AF Form 1245 (Avgas) are used at military installations only. The US Government Aviation Into-Plane Reimbursement (AIR) Card (currently issued by AVCARD) is the instrument to be used to obtain fuel under a DESC Into-Plane Contract and for NC purchases if the refueling agent at the commercial airport accepts the AVCARD. A current list of contract fuel locations is available online at <a href="https://www.desc.dla.mil/Static/ProductsAndServices.asp">www.desc.dla.mil/Static/ProductsAndServices.asp</a>; click on the Commercial Airports button.

See legend item 14 for fuel code and description.

# 26 SUPPORTING FLUIDS AND SYSTEMS—MILITARY

ADI

Anti-Detonation Injection Fluid—Reciprocating Engine Aircraft.

W Water Thrust Augmentation—Jet Aircraft.

WAI Water-Alcohol Injection Type, Thrust Augmentation—Jet Aircraft.

SP Single Point Refueling.

PRESAIR Air Compressors rated 3,000 PSI or more.

De-Ice Anti-icing/De-icing/Defrosting Fluid (MIL-A-8243).

OXYGEN:

LPOX Low pressure oxygen servicing.
HPOX High pressure oxygen servicing.
LHOX Low and high pressure oxygen servicing.

LOX Liquid oxygen servicing.

OXRB Oxygen replacement bottles. (Maintained primarily at Naval stations for use in acft where oxygen can be

replenished only by replacement of cylinders.)

OX Indicates oxygen servicing when type of servicing is unknown.

NOTE: Combinations of above items is used to indicate complete oxygen servicing available;

LHOXRB Low and high pressure oxygen servicing and replacement bottles;

 ${\sf LPOXRB} \qquad \qquad {\sf Low\ pressure\ oxygen\ replacement\ bottles\ only,\ etc.}$ 

NOTE: Aircraft will be serviced with oxygen procured under military specifications only. Aircraft will not be serviced with medical oxygen.

#### NITROGEN:

CODE

LPNIT — Low pressure nitrogen servicing.

HPNIT — High pressure nitrogen servicing.

LHNIT — Low and high pressure nitrogen servicing.

GRADE TYPE

# 27 OIL-MILITARY

US AVIATION OILS (MIL SPECS):

CODE	drade, TTE
0-113	1065, Reciprocating Engine Oil (MIL-L-6082)
0-117	1100, Reciprocating Engine Oil (MIL-L-6082)
0-117+	1100, 0-117 plus cyclohexanone (MIL-L-6082)
0-123	1065, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type III)
0-128	1100, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type II)
0-132	1005, Jet Engine Oil (MIL-L-6081)
0-133	1010, Jet Engine Oil (MIL-L-6081)
0-147	None, MIL-L-6085A Lubricating Oil, Instrument, Synthetic
0-148	None, MIL-L-7808 (Synthetic Base) Turbine Engine Oil
0-149	None, Aircraft Turbine Engine Synthetic, 7.5c St
0-155	None, MIL-L-6086C, Aircraft, Medium Grade
0-156	None, MIL-L-23699 (Synthetic Base), Turboprop and Turboshaft Engines

JOAP/SOAP Joint Oil Analysis Program. JOAP support is furnished during normal duty hours, other times on request.

(JOAP and SOAP programs provide essentially the same service, JOAP is now the standard joint service

supported program.)

# 28 TRANSIENT ALERT (TRAN ALERT)—MILITARY

Tran Alert service is considered to include all services required for normal aircraft turn-around, e.g., servicing (fuel, oil, oxygen, etc.), debriefing to determine requirements for maintenance, minor maintenance, inspection and parking assistance of transient aircraft. Drag chute repack, specialized maintenance, or extensive repairs will be provided within the capabilities and priorities of the base. Delays can be anticipated after normal duty hours/holidays/weekends regardless of the hours of transient maintenance operation. Pilots should not expect aircraft to be serviced for TURN-AROUNDS during time periods when servicing or maintenance manpower is not available. In the case of airports not operated exclusively by US military, the servicing indicated by the remarks will not always be available for US military.

aircraft. When transient alert services are not shown, facilities are unknown. NO PRIORITY BASIS—means that transient alert services will be provided only after all the requirements for mission/tactical assigned aircraft have been accomplished.

# (29) AIRPORT REMARKS

The Attendance Schedule is the months, days and hours the airport is actually attended. Airport attendance does not mean watchman duties or telephone accessibility, but rather an attendant or operator on duty to provide at least minimum services (e.g., repairs, fuel, transportation).

Airport Remarks have been grouped in order of applicability. Airport remarks are limited to those items of information that are determined essential for operational use, i.e., conditions of a permanent or indefinite nature and conditions that will remain in effect for more than 30 days concerning aeronautical facilities, services, maintenance available, procedures or hazards, knowledge of which is essential for safe and efficient operation of aircraft. Information concerning permanent closing of a runway or taxiway will not be shown. A note "See Special Notices" shall be applied within this remarks section when a special notice applicable to the entry is contained in the Special Notices section of this publication.

Parachute Jumping indicates parachute jumping areas associated with the airport. See Parachute Jumping Area section of this publication for additional Information.

Landing Fee indicates landing charges for private or non-revenue producing aircraft. In addition, fees may be charged for planes that remain over a couple of hours and buy no services, or at major airline terminals for all aircraft.

Note: Unless otherwise stated, remarks including runway ends refer to the runway's approach end.

# **30** MILITARY REMARKS

Military Remarks published at a joint Civil/Military facility are remarks that are applicable to the Military. At Military Facilities all remarks will be published under the heading Military Remarks. Remarks contained in this section may not be applicable to civil users. The first group of remarks is applicable to the primary operator of the airport. Remarks applicable to a tenant on the airport are shown preceded by the tenant organization, i.e., (A) (AF) (N) (ANG), etc. Military airports operate 24 hours unless otherwise specified. Airport operating hours are listed first (airport operating hours will only be listed if they are different than the airport attended hours or if the attended hours are unavailable) followed by pertinent remarks in order of applicability. Remarks will include information on restrictions, hazards, traffic pattern, noise abatement, customs/agriculture/immigration, and miscellaneous information applicable to the Military.

#### Type of restrictions:

CLOSED: When designated closed, the airport is restricted from use by all aircraft unless stated otherwise. Any closure applying to specific type of aircraft or operation will be so stated. USN/USMC/USAF airports are considered closed during non-operating hours. Closed airports may be utilized during an emergency provided there is a safe landing area.

OFFICIAL BUSINESS ONLY: The airfield is closed to all transient military aircraft for obtaining routine services such as fueling, passenger drop off or pickup, practice approaches, parking, etc. The airfield may be used by aircraws and aircraft if official government business (including civilian) must be conducted on or near the airfield and prior permission is received from the airfield manager.

AF OFFICIAL BUSINESS ONLY OR NAVY OFFICIAL BUSINESS ONLY: Indicates that the restriction applies only to service indicated.

PRIOR PERMISSION REQUIRED (PPR): Airport is closed to transient aircraft unless approval for operation is obtained from the appropriate commander through Chief, Airfield Management or Airfield Operations Officer. Official Business or PPR does not preclude the use of US Military airports as an alternate for IFR flights. If a non-US military airport is used as a weather alternate and requires a PPR, the PPR must be requested and confirmed before the flight departs. The purpose of PPR is to control volume and flow of traffic rather than to prohibit it. Prior permission is required for all aircraft requiring transient alert service outside the published transient alert duty hours. All aircraft carrying hazardous materials must obtain prior permission as outlined in AFJI 11–204, AR 95–27, OPNAVINST 3710.7.

Note: OFFICIAL BUSINESS ONLY AND PPR restrictions are not applicable to Special Air Mission (SAM) or Special Air Resource (SPAR) aircraft providing person or persons on aboard are designated Code 6 or higher as explained in AFJMAN 11–213, AR 95–11, OPNAVINST 3722–8J. Official Business Only or PPR do not preclude the use of the airport as an alternate for IFR flights.

# 31) WEATHER DATA SOURCES

Weather data sources will be listed alphabetically followed by their assigned frequencies and/or telephone number and hours of operation.

ASOS—Automated Surface Observing System. Reports the same as an AWOS-3 plus precipitation identification and intensity, and freezing rain occurrence (future enhancement).

AWOS-Automated Weather Observing System

AWOS-A—reports altimeter setting (all other information is advisory only).

AWOS-1—reports altimeter setting, wind data and usually temperature, dewpoint and density altitude.

AWOS-2-reports the same as AWOS-1 plus visibility.

AWOS-3—reports the same as AWOS-1 plus visibility and cloud/ceiling data.

See AIM, Basic Flight Information and ATC Procedures for detailed description of AWOS.

HIWAS—See RADIO AIDS TO NAVIGATION

LAWRS—Limited Aviation Weather Reporting Station where observers report cloud height, weather, obstructions to vision, temperature and devipoint (in most cases), surface wind, altimeter and pertinent remarks.

LLWAS—indicates a Low Level Wind Shear Alert System consisting of a center field and several field perimeter anemometers. SAWRS—identifies airports that have a Supplemental Aviation Weather Reporting Station available to pilots for current weather information.

SWSL—Supplemental Weather Service Location providing current local weather information via radio and telephone.

TDWR—indicates airports that have Terminal Doppler Weather Radar.

WSP—indicates airports that have Weather System Processor.

When the automated weather source is broadcast over an associated airport NAVAID frequency (see NAVAID line), it shall be indicated by a bold ASOS, AWOS, or HIWAS followed by the frequency, identifier and phone number, if available.

# 32 COMMUNICATIONS

Airport terminal control facilities and radio communications associated with the airport shall be shown. When the call sign is not the same as the airport name the call sign will be shown. Frequencies shall normally be shown in descending order with the primary frequency listed first. Frequencies will be listed, together with sectorization indicated by outbound radials, and hours of operation. Communications will be listed in sequence as follows:

Single Frequency Approach (SFA), Common Traffic Advisory Frequency (CTAF), Automatic Terminal Information Service (ATIS) and Aeronautical Advisory Stations (UNICOM) or (AUNICOM) along with their frequency is shown, where available, on the line following the heading "COMMUNICATIONS." When the CTAF and UNICOM frequencies are the same, the frequency will be shown as CTAF/LINICOM 122.8.

The FSS telephone nationwide is toll free 1–800–WX–BRIEF (1–800–992–7433). When the FSS is located on the field it will be indicated as "on arpt". Frequencies available at the FSS will follow in descending order. Remote Communications Outlet (RCO) providing service to the airport followed by the frequency and FSS RADIO name will be shown when available.

FSS's provide information on airport conditions, radio aids and other facilities, and process flight plans. Airport Advisory Service (AAS) is provided on the CTAF by FSS's for select non-tower airports or airports where the tower is not in operation.

(See AIM, Para 4-1-9 Traffic Advisory Practices at Airports Without Operating Control Towers or AC 90-42C.)

Aviation weather briefing service is provided by FSS specialists. Flight and weather briefing services are also available by calling the telephone numbers listed.

Remote Communications Outlet (RCO)—An unmanned air/ground communications facility that is remotely controlled and provides UHF or VHF communications capability to extend the service range of an FSS.

Civil Communications Frequencies-Civil communications frequencies used in the FSS air/ground system are operated on 122.0, 122.2, 123.6; emergency 121.5; plus receive-only on 122.1.

- a. 122.0 is assigned as the Enroute Flight Advisory Service frequency at selected FSS RADIO outlets.
- b. 122.2 is assigned as a common enroute frequency.
- c. 123.6 is assigned as the airport advisory frequency at select non-tower locations. At airports with a tower, FSS may provide airport advisories on the tower frequency when tower is closed.
- d. 122.1 is the primary receive-only frequency at VOR's.
- e. Some FSS's are assigned 50 kHz frequencies in the 122–126 MHz band (eg. 122.45). Pilots using the FSS A/G system should refer to this directory or appropriate charts to determine frequencies available at the FSS or remoted facility through which they wish to communicate.

Emergency frequency 121.5 and 243.0 are available at all Flight Service Stations, most Towers, Approach Control and RADAR facilities.

Frequencies published followed by the letter "T" or "R", indicate that the facility will only transmit or receive respectively on that frequency. All radio aids to navigation (NAVAID) frequencies are transmit only.

#### TERMINAL SERVICES

SFA—Single Frequency Approach.

CTAF—A program designed to get all vehicles and aircraft at airports without an operating control tower on a common frequency.

ATIS—A continuous broadcast of recorded non-control information in selected terminal areas.

D-ATIS—Digital ATIS provides ATIS information in text form outside the standard reception range of conventional ATIS via landline & data link communications and voice message within range of existing transmitters.

AUNICOM—Automated UNICOM is a computerized, command response system that provides automated weather, radio check capability and airport advisory information selected from an automated menu by microphone clicks.

UNICOM—A non-government air/ground radio communications facility which may provide airport information.

PTD-Pilot to Dispatcher.

APP CON—Approach Control. The symbol (R) indicates radar approach control.

TOWER—Control tower.

GCA—Ground Control Approach System.

GND CON—Ground Control.

GCO—Ground Communication Outlet—An unstaffed, remotely controlled, ground/ground communications facility. Pilots at uncontrolled airports may contact ATC and FSS via VHF to a telephone connection to obtain an instrument clearance or close a VFR or IFR flight plan. They may also get an updated weather briefing prior to takeoff. Pilots will use four "key clicks" on the

VHF radio to contact the appropriate ATC facility or six "key clicks" to contact the FSS. The GCO system is intended to be used only on the ground.

DEP CON—Departure Control. The symbol (R) indicates radar departure control.

CLNC DEL-Clearance Delivery.

PRE TAXI CLNC-Pre taxi clearance.

VFR ADVSY SVC—VFR Advisory Service. Service provided by Non-Radar Approach Control.

Advisory Service for VFR aircraft (upon a workload basis) ctc APP CON.

COMD POST—Command Post followed by the operator call sign in parenthesis.

PMSV—Pilot-to-Metro Service call sign, frequency and hours of operation, when full service is other than continuous.

PMSV installations at which weather observation service is available shall be indicated, following the frequency and/or

hours of operation as "Wx obsn svc 1900–0000Z‡" or "other times" may be used when no specific time is given. PMSV facilities manned by forecasters are considered "Full Service". PMSV facilities manned by weather observers are listed as "Limited Service".

OPS—Operations followed by the operator call sign in parenthesis.

CON

RANGE

FLT FLW-Flight Following

MEDIVAC

NOTE: Communication frequencies followed by the letter "X" indicate frequency available on request.

# 33 AIRSPACE

Information concerning Class B, C, and part-time D and E surface area airspace shall be published with effective times. Class D and E surface area airspace that is continuous as established by Rulemaking Docket will not be shown.

CLASS B—Radar Sequencing and Separation Service for all aircraft in CLASS B airspace.

CLASS C—Separation between IFR and VFR aircraft and sequencing of VFR arrivals to the primary airport.

TRSA—Radar Sequencing and Separation Service for participating VFR Aircraft within a Terminal Radar Service Area.

Class C, D, and E airspace described in this publication is that airspace usually consisting of a 5 NM radius core surface area that begins at the surface and extends upward to an altitude above the airport elevation (charted in MSL for Class C and Class D). Class E surface airspace normally extends from the surface up to but not including the overlying controlled airspace.

When part-time Class C or Class D airspace defaults to Class E, the core surface area becomes Class E. This will be formatted as:

AIRSPACE: CLASS C svc "times" ctc APP CON other times CLASS E:

0

AIRSPACE: CLASS D svc "times" other times CLASS E.

When a part-time Class C, Class D or Class E surface area defaults to Class G, the core surface area becomes Class G up to, but not including, the overlying controlled airspace. Normally, the overlying controlled airspace is Class E airspace beginning at either 700' or 1200' AGL. This will be formatted as:

 $\textbf{AIRSPACE: CLASS C} \text{ svc ''times'' ctc } \textbf{APP CON} \text{ other times CLASS G, with CLASS E 700' (or 1200') AGL \& abv: } \textbf{AGL } \textbf{APP CON} \text{ other times CLASS G, with CLASS E 700' (or 1200') AGL } \textbf{AGL } \textbf{ABV: } \textbf$ 

0

AIRSPACE: CLASS D svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv:

or

AIRSPACE: CLASS E svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv.

NOTE: AIRSPACE SVC "TIMES" INCLUDE ALL ASSOCIATED ARRIVAL EXTENSIONS. Surface area arrival extensions for instrument approach procedures become part of the primary core surface area. These extensions may be either Class D or Class E airspace and are effective concurrent with the times of the primary core surface area. For example, when a part-time Class C, Class D or Class E surface area defaults to Class G, the associated arrival extensions will default to Class G at the same time. When a part-time Class C or Class D surface area defaults to Class E, the arrival extensions will remain in effect as Class E airspace.

NOTE: CLASS E AIRSPACE EXTENDING UPWARD FROM 700 FEET OR MORE ABOVE THE SURFACE, DESIGNATED IN CONJUNCTION WITH AN AIRPORT WITH AN APPROVED INSTRUMENT PROCEDURE.

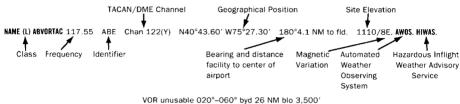
Class E 700′ AGL (shown as magenta vignette on sectional charts) and 1200′ AGL (blue vignette) areas are designated when necessary to provide controlled airspace for transitioning to/from the terminal and enroute environments. Unless otherwise specified, these 700′/1200′ AGL Class E airspace areas remain in effect continuously, regardless of airport operating hours or surface area status. These transition areas should not be confused with surface areas or arrival extensions.

(See Chapter 3, AIRSPACE, in the Aeronautical Information Manual for further details)



The Airport/Facility Directory lists, by facility name, all Radio Aids to Navigation that appear on National Aeronautical Charting Office Visual or IFR Aeronautical Charts and those upon which the FAA has approved an Instrument Approach Procedure, with exception of selected TACANs. Military TACAN information will be published for Military facilities contained in this publication. All VOR, VORTAC, TACAN, ILS and MLS equipment in the National Airspace System has an automatic monitoring and shutdown feature in the event of malfunction. Unmonitored, as used in this publication, for any navigational aid, means that monitoring personnel cannot observe the malfunction or shutdown signal. The NAVAID NOTAM file identifier will be shown as "NOTAM FILE IAD" and will be listed on the Radio Aids to Navigation line. When two or more NAVAIDS are listed and the NOTAM file identifier is different from that shown on the Radio Aids to Navigation line, it will be shown with the NAVAID listing. NOTAM file identifiers for ILSs and its components (e.g., NDB (LOM) are the same as the associated airports and are not repeated. Automated Surface Observing System (ASOS), Automated Weather Observing System (AWOS), and Hazardous Inflight Weather Advisory Service (HIWAS) will be shown when this service is broadcast over selected NAVAIDs.

NAVAID information is tabulated as indicated in the following sample:



Restriction within the normal altitude/range of the navigational aid (See primary alphabetical listing for restrictions on VORTAC and VOR/DME).

Note: Those DME channel numbers with a (Y) suffix require TACAN to be placed in the "Y" mode to receive distance information

HIWAS—Hazardous Inflight Weather Advisory Service is a continuous broadcast of inflight weather advisories including summarized SIGMETs, convective SIGMETs, AIRMETs and urgent PIREPs. HIWAS is presently broadcast over selected VOR's and will be implemented throughout the conterminous U.S.

ASR/PAR—Indicates that Surveillance (ASR) or Precision (PAR) radar instrument approach minimums are published in the U.S. Terminal Procedures. Only part-time hours of operation will be shown.

#### RADIO CLASS DESIGNATIONS

VOR/DME/TACAN Standard Service Volume (SSV) Classifications

SSV Class	Altitudes	Distance	
	<del></del>	(NM)	
(T) Terminal	1000' to 12,000'	25	
(L) Low Altitude	1000' to 18,000'	40	
(H) High Altitude	1000' to 14,500'	40	
	14,500' to 18,000'	100	
	18,000' to 45,000'	130	
	45.000' to 60.000'	100	

NOTE: Additionally, (H) facilities provide (L) and (T) service volume and (L) facilities provide (T) service. Altitudes are with respect to the station's site elevation. Coverage is not available in a cone of airspace directly above the facility.

#### CONTINUED ON NEXT PAGE

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The term VOR is, operationally, a general term covering the VHF omnidirectional bearing type of facility without regard to the fact that the power, the frequency protected service volume, the equipment configuration, and operational requirements may vary between facilities at different locations.

*	
AB	Automatic Weather Broadcast.
DF	Direction Finding Service.
DME	UHF standard (TACAN compatible) distance measuring equipment.
DME(Y)	placed in the "Y" mode to receive DME.
GS	Glide slope.
H	Non-directional radio beacon (homing), power 50 watts to less than 2,000 watts (50 NM at all altitudes).
нн	Non-directional radio beacon (homing), power 2,000 watts or more (75 NM at all altitudes).
H-SAB	Non-directional radio beacons providing automatic transcribed weather service.
ILS	Instrument Landing System (voice, where available, on localizer channel).
IM	Inner marker.
ISMLS	Interim Standard Microwave Landing System.
LDA	Localizer Directional Aid.
LMM	Compass locator station when installed at middle marker site (15 NM at all altitudes).
LOM	Compass locator station when installed at outer marker site (15 NM at all altitudes).
MH	Non-directional radio beacon (homing) power less than 50 watts (25 NM at all altitudes).
MLS	Microwave Landing System.
MM	Middle marker.
OM	Outer marker.
S	Simultaneous range homing signal and/or voice.
SABH	Non-directional radio beacon not authorized for IFR or ATC. Provides automatic weather broadcasts.
SDF	Simplified Direction Facility.
TACAN	UHF navigational facility-omnidirectional course and distance information.
VOR	VHF navigational facility-omnidirectional course only.
VOR/DME	Collocated VOR navigational facility and UHF standard distance measuring equipment.
VORTAC	Collocated VOR and TACAN navigational facilities.
W	Without voice on radio facility frequency.
Z	VHF station location marker at a LF radio facility.

#### ILS FACILITY PEFORMANCE CLASSIFICATION CODES

Codes define the ability of an ILS to support autoland operations. The two portions of the code represent Official Category and farthest point along a Category I, II, or III approach that the Localizer meets Category III structure tolerances.

Official Category: I, II, or III; the lowest minima on published or unpublished procedures supported by the ILS.

Farthest point of satisfactory Category III Localizer performance for Category I, II, or III approaches: A-4 NM prior to runway threshold, B-3500 ft prior to runway threshold, C-glide angle dependent but generally 750–1000 ft prior to threshold, T-runway threshold, D-3000 ft after runway threshold, and E-2000 ft prior to stop end of runway.

ILS information is tabulated as indicated in the following sample:



#### FREQUENCY PAIRING PLAN AND MLS CHANNELING

	TREGOLIOT FARRING FEAR AND MES SHARRELING							
MLS	VHF	TACAN	MLS	VHF	TACAN	MLS	VHF	TACAN
CHANNEL	FREQUENCY	CHANNEL	CHANNEL	FREQUENCY	CHANNEL	CHANNEL	FREQUENCY	CHANNEL
500	108.10	18X	568	109.45	31Y	636	114.15	88Y
502	108.30	20X	570	109.55	32Y	638	114.25	89Y
504	108.50	22X	572	109.65	33Y	640	114.35	90Y
506	108.70	24X	574	109.75	34Y	642	114.45	91Y
508	108.90	26X	576	109.85	35Y	644	114.55	92Y
510	109.10	28X	578	109.95	36Y	646	114.65	93Y
512	109.30	30X	580	110.05	37Y	648	114.75	94Y
514	109.50	32X	582	110.15	38Y	650	114.85	95Y
516	109.70	34X	584	110.25	39Y	652	114.95	96Y
518	109.90	36X	586	110.35	40Y	654	115.05	97Y
520	110.10	38X	588	110.45	41Y	656	115.15	98Y
522	110.30	40X	590	110.55	42Y	658	115.25	99Y
524	110.50	42X	592	110.65	43Y	660	115.35	100Y
526	110.70	44X	594	110.75	44Y	662	115.45	101Y
528	110.90	46X	596	110.85	45Y	664	115.55	102Y
530	111.10	48X	598	110.95	46Y	666	115.65	103Y
532	111.30	50X	600	111.05	47Y	668	115.75	104Y
534	111.50	52X	602	111.15	48Y	670	115.85	105Y
536	111.70	54X	604	111.25	49Y	672	115.95	106Y
538	111.90	56X	606	111.35	50Y	674	116.05	107Y
540	108.05	17Y	608	111.45	51Y	676	116.15	108Y
542	108.15	18Y	610	111.55	52Y	678	116.25	109Y
544	108.25	19Y	612	111.65	53Y	680	116.35	110Y
546	108.35	20Y	614	111.75	54Y	682	116.45	111Y
548	108.45	21Y	616	111.85	55Y	684	116.55	112Y
550	108.55	22Y	618	111.95	56Y	686	116.65	113Y
552	108.65	23Y	620	113.35	80Y	688	116.75	114Y
554	108.75	24Y	622	113.45	81Y	690	116.85	115Y
556	108.85	25Y	624	113.55	82Y	692	116.95	116Y
558	108.95	26Y	626	113.65	83Y	694	117.05	117Y
560	109.05	27Y	628	113.75	84Y	696	117.15	118Y
562	109.15	28Y	630	113.85	85Y	698	117.25	119Y
564	109.25	29Y	632	113.95	86Y			
566	109.35	30Y	634	114.05	87Y			

#### FREQUENCY PAIRING PLAN AND MLS CHANNELING

The following is a list of paired VOR/ILS VHF frequencies with TACAN channels and MLS channels.

TACAN Channel	VHF Frequency	MLS Channel	TACAN Channel	VHF Frequency	MLS Channel	TACAN Channel	VHF Frequency	MLS Channel
2X	134.5	-	19Y	108.25	544	25X	108.80	-
2Y	134.55	-	20X	108.30	502	25Y	108.85	556
11X	135.4	-	20Y	108.35	546	26X	108.90	508
11Y	135.45	-	21X	108.40	-	26Y	108.95	558
12X	135.5	-	21Y	108.45	548	27X	109.00	-
12Y	135.55	-	22X	108.50	504	27Y	109.05	560
17X	108.00	-	22Y	108.55	550	28X	109.10	510
17Y	108.05	540	23X	108.60	-	28Y	109.15	562
18X	108.10	500	23Y	108.65	552	29X	109.20	-
18Y	108.15	542	24X	108.70	506	29Y	109.25	564
19X	108.20	-	24Y	108.75	554	30X	109.30	512

30Y	TACAN Channel	VHF Frequency	MLS Channel	TACAN Channel	VHF Frequency	MLS Channel	TACAN Channel	VHF Frequency	MLS Channel
31X						-			
32X 109.50 514 64Y 133.75 - 97X 115.00 - 654 33X 109.60 - 66Y 133.80 - 98X 115.10 - 654 33X 109.60 - 66Y 133.95 - 98X 115.10 - 656 33X 109.60 - 66Y 133.95 - 98X 115.10 - 656 34X 109.70 516 66Y 133.95 - 99X 115.20 - 658 34X 109.75 574 67X 134.00 - 99Y 115.25 658 35X 109.80 - 67Y 134.05 - 100X 115.30 - 658 35X 109.80 - 67Y 134.05 - 100X 115.30 - 660 36X 109.90 518 68Y 134.10 - 100Y 115.26 660 36X 109.90 518 68Y 134.10 - 100Y 115.30 - 662 37X 110.00 - 69Y 134.25 - 100X 115.50 - 662 37X 110.00 - 69Y 134.25 - 100X 115.50 - 663 38X 109.80 - 70Y 112.35 - 100X 115.50 - 664 38X 110.10 520 70Y 112.35 - 100X 115.50 - 664 38X 110.10 520 70Y 112.35 - 100X 115.50 - 664 38X 110.10 520 70Y 112.35 - 100X 115.50 - 664 39X 110.25 584 72X 112.50 - 100X 115.70 668 40X 110.30 522 72Y 112.55 - 100X 115.70 668 40X 110.30 522 72Y 112.55 - 100X 115.80 666 40X 110.30 522 72Y 112.55 - 100X 115.80 666 40X 110.30 522 72Y 112.55 - 100X 115.80 670 41X 110.45 588 74X 112.60 - 109X 115.85 670 41X 110.65 590 75X 112.80 - 109X 115.85 670 41X 110.65 590 75X 112.80 - 109X 115.80 670 41X 110.50 524 74Y 112.75 - 100X 115.95 672 42Y 110.55 590 75X 112.80 - 100X 115.95 672 42Y 110.55 590 75X 112.80 - 100X 115.95 672 44Y 110.50 524 77X 112.95 - 100X 115.95 672 44Y 110.50 524 76X 112.80 - 100Y 116.05 674 44X 110.70 526 76X 112.80 - 100Y 116.55 684 46X 110.90 528 78X 113.90 - 110Y 116.05 674 44X 110.70 526 76Y 112.95 - 100X 116.05 674 44X 110.70 536 80Y 113.35 620 113X 116.00 - 100Y 116.55 684 46X 110.90 528 78X 113.10 - 110Y 116.55 684 46X 110.90 528 78X 113.10 - 110Y 116.55 684 47X 111.00 - 586 76Y 112.95 - 100Y 116.55 684 48X 111.00 - 588 78X 113.10 - 110Y 116.55 684 48X 111.00 - 588 78X 113.10 - 110Y 116.55 684 48X 111.00 - 588 78X 113.30 - 110Y 116.55 684 48X 111.00 - 588 78X 113.50 - 110X 116.50 - 58X 116.10 - 58X 117.7						-			-
32Y	31Y	109.45	568	64X	133.70	-	96Y	114.95	652
33X 109.60 - 66Y 133.85 - 98X 115.10 - 33Y 109.65 572 66X 133.90 - 98Y 115.15 656  34X 109.70 516 66Y 133.95 - 99X 115.20 - 34Y 109.75 574 67X 134.00 - 99Y 115.25 658  35X 109.80 - 67Y 134.05 - 100X 115.30 - 35Y 109.85 576 68X 134.10 - 100Y 115.35 660  36X 109.90 518 68Y 134.15 - 101X 115.40 - 36Y 109.95 578 68X 134.20 - 101Y 115.45 662  37X 110.00 - 69Y 134.25 - 102X 115.50 - 37Y 110.05 580 70X 112.30 - 102X 115.50 - 37Y 110.05 580 70X 112.30 - 102X 115.50 - 37Y 110.05 580 70X 112.30 - 102X 115.50 - 38Y 10.15 582 71X 112.40 - 103X 115.60 - 38Y 10.15 582 71X 112.40 - 103X 115.60 - 38Y 110.15 582 71X 112.40 - 103X 115.60 - 39Y 110.25 584 72X 112.50 - 104X 115.70 668  40X 110.30 522 72Y 112.55 - 104X 115.70 668  40X 110.30 522 72Y 112.55 - 104X 115.80 670 110.35 588 73X 112.60 - 105X 115.80 670 110.41 110.45 588 74X 112.75 - 106X 115.80 670 110.41 110.45 588 74X 112.75 - 106X 115.80 670 110.41 110.55 590 75Y 112.85 - 106X 115.80 670 110.41 110.55 590 75Y 112.85 - 106X 115.80 670 110.41 110.55 590 75Y 112.85 - 106X 115.80 670 110.41 110.55 590 75Y 112.85 - 106X 115.80 670 110.41 110.55 590 75Y 112.85 - 106X 115.80 670 110.41 110.55 590 75Y 112.85 - 106X 115.80 674 110.55 590 75Y 112.85 - 106X 115.55 678 110.65 592 76X 112.80 - 106Y 116.55 678 110.65 598 78Y 113.15 - 110Y 116.65 68 110Y 116.55 684 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 689 110.75 689 11	32X	109.50	514	64Y	133.75	-	97X	115.00	-
38X 109.65 572 66K 133.90 - 98Y 115.5 656 34X 109.70 516 66Y 133.95 - 99X 115.20 - 34Y 109.75 574 67X 134.00 - 99Y 115.25 658 35X 109.80 - 67Y 134.05 - 100X 115.30 - 35Y 109.85 576 68K 134.10 - 100Y 115.35 660 36X 109.90 518 68X 134.10 - 100Y 115.35 660 36X 109.90 518 68X 134.20 - 101Y 115.45 662 37X 110.00 - 69Y 134.25 - 102X 115.50 - 37Y 110.05 580 70X 112.30 - 102Y 115.55 664 38K 110.10 520 70Y 112.35 - 103X 115.60 - 38K 110.10 520 70Y 112.35 - 103X 115.65 664 38K 110.10 520 70Y 112.35 - 103X 115.65 664 39X 110.20 71Y 112.45 - 104X 115.70 668 40X 110.30 522 72Y 112.55 - 106X 115.80 - 40X 110.30 522 72Y 112.55 - 106X 115.80 - 41X 110.40 - 73Y 112.60 - 106Y 115.75 668 41X 110.40 - 73Y 112.65 - 106X 115.90 - 41X 110.45 588 74X 112.70 - 106Y 115.75 672 42X 110.50 524 74Y 112.75 - 107X 116.00 - 42X 110.50 592 76X 112.80 - 107Y 116.05 674 43X 110.60 - 75Y 112.85 - 106X 115.90 - 44X 110.70 526 76Y 112.95 - 106X 116.30 - 674 44X 110.70 526 76Y 112.95 - 106X 116.30 - 674 44X 110.70 526 76Y 112.95 - 106X 116.30 - 674 44X 110.70 526 76Y 112.95 - 106X 116.30 - 674 44X 110.70 526 76Y 112.95 - 106X 116.00 - 674 44X 110.70 526 76Y 112.95 - 106X 116.30 - 674 44X 110.70 526 76Y 112.95 - 106X 116.50 - 674 44X 110.70 526 76Y 112.95 - 106X 116.50 - 674 44X 110.70 526 76Y 112.95 - 106X 116.50 - 674 44X 110.70 526 76Y 112.95 - 106X 116.50 - 674 44X 110.70 526 76Y 112.95 - 106X 116.50 - 678 44X 110.80 - 77Y 113.05 - 110X 116.00 - 674 44X 110.70 526 76Y 112.95 - 106X 116.50 - 678 45Y 110.85 596 78X 113.10 - 110Y 116.55 680 46X 110.90 528 78Y 113.15 - 111X 116.40 - 682 47Y 111.05 500 80Y 113.95 622 114X 116.70 - 688 50X 111.30 532 88Y 113.50 - 114Y 116.75 688 50X 111.30 532 88Y 113.50 - 114Y 116.75 688 50X 111.30 532 88Y 113.55 622 114X 116.70 - 694 53X 111.60 - 88Y 113.85 632 119X 117.10 - 565 50Y 111.55 618 88X 113.80 - 117Y 117.05 698 50X 111.30 532 88Y 114.55 642 119X 117.75 698 50X 111.50 534 84Y 113.75 622 114X 117.70 - 1695 50X 111.95 618 88X 113.80 - 117Y 117.05 698 50X 111.85 616 88X 113.80 - 117Y 117.05 698 50X 111.95 618	32Y	109.55	570	65X	133.80	-	97Y	115.05	654
34X         109.70         516         66Y         133.95         -         99X         115.20         -           38X         109.80         -         67Y         134.00         -         99Y         115.25         658           38X         109.85         576         68X         134.10         -         100X         115.30         -           36X         109.95         578         68X         134.15         -         101X         115.40         -           37Y         110.00         -         69Y         134.25         -         102Y         115.55         664           38X         110.10         520         70Y         112.35         -         102Y         115.55         664           38Y         110.15         582         71X         112.40         -         103Y         115.65         666           39X         110.20         -         71Y         112.45         -         104Y         115.75         688           40X         110.30         522         72Y         112.55         -         104Y         115.75         688           40X         110.35         586         73X         112.65	33X	109.60	-	65Y	133.85	-	98X	115.10	-
38X 109.80 - 67Y 134.05 - 100X 115.25 658 38X 109.85 - 66Y 134.05 - 100X 115.35 668 38X 109.85 576 68X 134.10 - 100Y 115.35 668 38X 109.95 578 69X 134.20 - 101Y 115.45 662 37X 110.00 - 69Y 134.25 - 102X 115.55 664 38X 110.00 - 590 70X 112.30 - 102Y 115.55 664 38X 110.10 520 70Y 112.35 - 103X 115.65 664 38X 110.10 520 70Y 112.35 - 103X 115.65 664 38X 110.10 520 70Y 112.35 - 103X 115.65 664 38X 110.10 580 70X 112.40 - 103Y 115.65 666 39X 110.25 584 71X 112.45 - 104X 115.75 668 40X 110.35 586 73X 112.60 - 104Y 115.75 668 40X 110.35 586 73X 112.60 - 105Y 115.85 670 41X 110.40 - 73Y 112.55 - 105X 115.80 - 104X 115.70 688 41Y 110.45 588 74X 112.70 - 106Y 115.95 672 42X 110.55 590 75X 112.80 - 107Y 116.00 - 42Y 110.55 590 75X 112.80 - 107Y 116.00 674 43X 110.60 - 75Y 112.85 - 106X 115.90 - 104X 115.76 676 44X 110.70 526 76Y 112.95 - 106X 115.90 - 104X 110.55 676 44X 110.70 526 76Y 112.95 - 106X 115.90 - 104X 115.70 674 44X 110.75 594 77X 113.00 - 106Y 115.95 672 44X 110.55 590 75X 112.80 - 107Y 116.00 - 43Y 110.65 592 76X 112.90 - 108Y 116.15 676 44X 110.75 594 77X 113.00 - 109Y 116.20 - 44X 110.75 594 77X 113.00 - 109Y 116.20 - 44X 110.75 594 77X 113.00 - 109Y 116.25 678 48X 110.80 - 77Y 113.25 - 110X 116.30 - 45Y 110.85 596 78X 113.10 - 110Y 116.55 680 46X 110.90 528 78Y 113.15 - 111X 116.40 - 47Y 110.05 598 79X 113.20 - 111Y 116.45 682 47X 111.00 - 79Y 113.25 - 112X 116.50 - 44X 110.70 526 600 80X 113.30 - 112Y 116.55 684 48X 111.10 530 80Y 113.35 620 113X 116.60 - 15Y 115 116.50 -	33Y	109.65	572	66X	133.90	-	98Y	115.15	656
SSK	34X	109.70	516	66Y	133.95	-	99X	115.20	-
38Y         109.85         576         68X         134.10         -         100Y         115.35         660           36Y         109.95         578         69X         134.20         -         101Y         115.45         662           37X         110.00         69Y         134.25         -         101Y         115.55         664           38X         110.10         520         70Y         112.35         -         102Y         115.55         664           38X         110.15         582         71X         112.40         -         103Y         115.60         -           39X         110.25         584         72X         112.50         -         104X         115.70         -           40X         110.35         586         73X         112.60         -         105Y         115.80         -           40X         110.35         586         73X         112.60         -         105Y         115.80         -           41X         110.40         -         73Y         112.65         -         106X         115.90         -           41X         110.45         588         74X         112.70         -	34Y	109.75	574	67X	134.00	-	99Y	115.25	658
36X         109.90         518         68Y         134.20         -         101X         115.40         -           36Y         109.95         578         69X         134.20         -         101Y         115.50         -           37Y         110.05         580         70X         112.30         -         102X         115.55         664           38X         110.15         582         71X         112.40         -         103X         115.65         666           39X         110.20         -         71Y         112.45         -         104Y         115.75         668           39X         110.25         584         72X         112.50         -         104Y         115.75         668           40X         110.30         522         72Y         112.55         -         105X         115.80         -           40Y         110.35         586         73X         112.65         -         106X         115.85         67           41X         110.40         -         73Y         112.65         -         106X         115.85         67           42X         110.50         524         74Y         112.	35X	109.80	-	67Y	134.05	-	100X	115.30	-
38Y         109.95         578         69X         134.25         -         102X         115.50         -           37Y         110.05         580         70X         112.30         -         102X         115.55         664           38X         110.10         520         70Y         112.35         -         103X         115.60         -           38Y         110.15         582         71X         112.40         -         103Y         115.65         666           39X         110.25         584         72X         112.50         -         104X         115.76         -           40X         110.30         522         72Y         112.55         -         106X         115.80         -           40Y         110.35         586         73X         112.60         -         105Y         115.85         670           41X         110.40         -         73Y         112.65         -         106X         115.95         672           42Y         110.55         588         74X         112.70         -         106Y         115.95         672           42Y         110.55         590         75X         11	35Y	109.85	576	68X	134.10	-	100Y	115.35	660
37X         110.00         -         69Y         134.25         -         102Y         115.55         664           38X         110.10         520         70Y         112.35         -         103X         115.60         -           38Y         110.15         582         71X         112.40         -         103Y         115.60         -           39X         110.25         584         72X         112.50         -         104X         115.70         -           39Y         110.25         584         72X         112.50         -         104Y         115.75         668           40X         110.30         522         72Y         112.55         -         105X         115.80         -           40Y         110.35         586         73X         112.60         -         105Y         115.85         670           41X         110.40         -         73Y         112.65         -         106X         115.90         -           42X         110.50         524         74X         112.75         -         107X         116.00         -           43X         110.60         -         75Y         112.85 <td>36X</td> <td>109.90</td> <td>518</td> <td>68Y</td> <td>134.15</td> <td>-</td> <td>101X</td> <td>115.40</td> <td>-</td>	36X	109.90	518	68Y	134.15	-	101X	115.40	-
37Y         110.05         580         70X         112.35         -         103X         115.60         -           38Y         110.15         582         71X         112.40         -         103X         115.65         666           39X         110.20         -         71Y         112.45         -         104X         115.75         668           39X         110.25         584         72X         112.50         -         104X         115.75         668           40X         110.35         586         73X         112.60         -         105Y         115.86         -           40Y         110.35         586         73X         112.60         -         105Y         115.86         -           41Y         110.40         -         73Y         112.65         -         106Y         115.95         672           42X         110.55         580         75X         112.75         -         107X         116.00         -           42Y         110.55         590         75X         112.80         -         107Y         116.05         674           43X         110.65         592         76X         112.		109.95	578		134.20	-		115.45	662
38X         110.10         520         70Y         112.35         -         103X         115.65         666           39X         110.25         582         71X         112.40         -         103Y         115.65         666           39X         110.25         584         72X         112.50         -         104X         115.70         -           39Y         110.35         586         73X         112.60         -         105X         115.80         -           40Y         110.35         586         73X         112.60         -         105Y         115.86         670           41X         110.40         -         73Y         112.65         -         106X         115.90         -           42X         110.50         524         74X         112.75         -         107X         116.00         -           42X         110.55         590         75X         112.80         -         107Y         116.00         -           43X         110.65         592         76X         112.95         -         108X         116.10         -           43X         110.65         592         76X         112.95						-			
38Y         110.15         582         71X         112.40         .         103Y         115.65         666           39Y         110.20         -         71Y         112.45         -         104X         115.75         668           40X         110.30         522         72Y         112.55         -         105X         115.80         -           41X         110.40         -         73Y         112.65         -         106X         115.80         -           41X         110.40         -         73Y         112.65         -         106X         115.90         -           41X         110.40         -         73Y         112.65         -         106X         115.90         -           41X         110.60         -         75X         112.80         -         107X         116.00         -           42X         110.55         590         75X         112.85         -         108X         116.10         -           43X         110.60         -         75Y         112.85         -         108X         116.10         -           44X         110.75         594         77X         113.00						-			664
39X         110.20         .         71Y         112.45         .         104X         115.75         668           40X         110.30         522         72Y         112.55         .         105X         115.80         .           40Y         110.35         586         73X         112.60         .         105Y         115.85         .           41X         110.40         .         73Y         112.65         .         106Y         115.90         .           41Y         110.45         588         74X         112.75         .         107X         116.00         .           42X         110.55         590         75X         112.80         .         107Y         116.00         .           43X         110.60         .         75Y         112.85         .         108X         116.10         .           43X         110.60         .         75Y         112.85         .         108X         116.10         .           43X         110.60         .         77Y         113.00         .         109Y         116.25         678           44X         110.70         528         78Y         113.00						-			
39Y			582			-			666
40X         110.30         522         72Y         112.55         .         105X         115.80         .           40Y         110.35         586         73X         112.60         .         105Y         115.85         670           41X         110.40         .         73Y         112.65         .         106Y         115.90         .           41Y         110.50         588         74X         112.75         .         106Y         116.90         .           42Y         110.55         590         75X         112.85         .         107Y         116.00         .           43X         110.60         .         75Y         112.85         .         108X         116.10         .           43X         110.65         592         76X         112.90         .         108Y         116.20         .           44X         110.70         526         76Y         112.95         .         109X         116.25         676           44X         110.75         594         77X         113.00         .         1109X         116.20         .           45Y         110.85         596         78X         113.10 <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td>			-			-			-
40V         110.35         586         73X         112.65         -         106X         115.90         -           41X         110.40         -         73Y         112.65         -         106X         115.90         -           41Y         110.45         588         74X         112.70         -         106Y         115.95         672           42X         110.50         524         74Y         112.75         -         107X         116.00         -           43X         110.60         -         75Y         112.85         -         108X         116.10         -           43Y         110.65         592         76X         112.95         -         109X         116.15         676           44X         110.70         526         76Y         112.95         -         109X         116.15         676           44X         110.75         594         77X         113.00         -         109Y         116.25         678           45Y         110.85         596         78X         113.10         -         110Y         116.35         680           47X         110.95         598         79X         113.						-			
41X         110.40         -         73Y         112.65         -         106X         115.90         -           41Y         110.45         588         74X         112.70         -         106Y         115.95         672           42X         110.55         590         75X         112.80         -         107Y         116.05         -           43X         110.65         592         76X         112.90         -         108Y         116.15         676           44X         110.70         526         76Y         112.95         -         109X         116.15         676           44X         110.70         526         76Y         112.95         -         109X         116.25         678           44X         110.75         594         77X         113.00         -         100X         116.30         -           45Y         110.80         -         77Y         113.05         -         110X         116.30         -           45Y         110.85         596         78X         113.10         -         111X         116.40         -           47Y         111.05         60         80X         113.20<						-			
41Y         110.45         588         74X         112.70         -         106Y         115.95         672           42X         110.50         524         74Y         112.75         -         107X         116.00         -           43X         110.60         -         75Y         112.80         -         107Y         116.05         674           43X         110.60         -         75Y         112.85         -         108X         116.10         -           43Y         110.65         592         76X         112.90         -         108X         116.15         676           44X         110.70         526         76Y         112.95         -         109X         116.20         -           45X         110.80         -         77Y         113.05         -         110X         116.25         678           45X         110.85         596         78X         113.10         -         110Y         116.35         680           46X         110.95         598         79X         113.20         -         111Y         116.45         682           47X         111.05         600         80X         113.			586			-			670
42X         110.50         524         74Y         112.75         -         107X         116.00         -           42Y         110.55         590         75X         112.80         -         107Y         116.05         674           43X         110.65         592         76X         112.90         -         108Y         116.15         676           44X         110.75         594         77X         113.00         -         109Y         116.25         678           45X         110.80         -         77Y         113.05         -         110X         116.30         -           45Y         110.85         596         78X         113.10         -         110Y         116.35         680           46X         110.90         528         78Y         113.20         -         111X         116.40         -           47X         111.05         600         80X         113.20         -         1112Y         116.50         -           47X         111.05         600         80X         113.30         -         112Y         116.55         684           48X         111.15         602         81X         1			_			-			
42Y         110.55         590         75X         112.80         -         107Y         116.05         674           43X         110.60         -         75Y         112.85         -         108X         116.10         -           43Y         110.65         592         76X         112.95         -         109X         116.15         676           44X         110.70         526         76Y         112.95         -         109X         116.20         -           44Y         110.75         594         77X         113.00         -         109Y         116.20         -           45X         110.80         -         77Y         113.05         -         110X         116.30         -           46X         110.95         598         79X         113.10         -         110Y         116.35         680           46X         110.95         598         79X         113.20         -         111Y         116.45         682           47X         111.00         -         79Y         113.25         -         112X         116.50         -           48X         111.10         530         80Y         113.35 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>672</td>						-			672
43X         110.60         -         75Y         112.85         -         108X         116.10         -           43Y         110.65         592         76X         112.90         -         108Y         116.15         676           44X         110.75         594         77X         113.00         -         109Y         116.20         -           45X         110.80         -         77Y         113.05         -         110X         116.30         -           45Y         110.85         596         78X         113.10         -         110Y         116.35         680           46X         110.90         528         78Y         113.15         -         111X         116.40         -           46Y         110.95         598         79X         113.20         -         111Y         116.45         682           47X         111.00         -         79Y         113.25         -         112X         116.50         -           48X         111.15         600         80X         113.30         -         112Y         116.55         684           48Y         111.25         602         81X         113.40 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td>						-			
43Y         110.65         592         76X         112.90         -         108Y         116.20         -           44X         110.70         526         76Y         112.95         -         109Y         116.20         -           45X         110.80         -         77Y         113.00         -         110X         116.30         -           45Y         110.85         596         78X         113.10         -         110Y         116.35         680           46X         110.90         528         78Y         113.15         -         111X         116.40         -           46Y         110.95         598         79X         113.25         -         111Y         116.45         682           47X         111.05         600         80X         113.30         -         112Y         116.55         684           48X         111.10         530         80Y         113.30         -         112Y         116.65         686           49X         111.20         -         81Y         113.40         -         113Y         116.65         686           50X         111.35         606         83X         113.			590			-			674
44X         110.70         526         76Y         112.95         -         109X         116.25         678           44Y         110.75         594         77X         113.05         -         110X         116.30         -           45Y         110.85         596         78X         113.10         -         110Y         116.35         680           46X         110.90         528         78Y         113.15         -         111X         116.40         -           46Y         110.95         598         79X         113.20         -         111Y         116.45         682           47X         111.00         -         79Y         113.25         -         112X         116.50         -           47Y         111.05         600         80X         113.35         620         113X         116.60         -           48X         111.15         602         81X         113.40         -         113Y         116.65         684           49X         111.25         604         82X         113.50         -         114Y         116.70         -           49Y         111.25         604         82X         11						-			
44Y         110.75         594         77X         113.00         -         109Y         116.25         678           45X         110.80         -         77Y         113.05         -         110X         116.30         -           45Y         110.85         596         78X         113.10         -         110Y         116.35         680           46X         110.90         528         78Y         113.15         -         111X         116.40         -           46Y         110.95         598         79X         113.25         -         111Y         116.50         -           47Y         111.05         600         80X         113.30         -         112Y         116.55         684           48X         111.10         530         80Y         113.35         620         113X         116.65         686           49X         111.20         -         81Y         113.45         622         114X         116.70         -           49Y         111.25         604         82X         113.55         624         115X         116.80         -           50Y         111.35         606         83X						-			
45X         110.80         -         77Y         113.05         -         110X         116.30         -           45Y         110.85         596         78X         113.10         -         110Y         116.35         680           46Y         110.95         598         79X         113.20         -         111Y         116.40         -           47Y         111.00         -         79Y         113.25         -         111Y         116.50         -           47Y         111.00         600         80X         113.30         -         112Y         116.50         -           47Y         111.10         530         80Y         113.35         620         113X         116.60         -           48Y         111.15         602         81X         113.40         -         113Y         116.65         686           49X         111.25         604         82X         113.50         -         114Y         116.70         -           49Y         111.25         604         82X         113.50         -         114Y         116.70         -           50X         111.30         532         82Y         113.55 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>_</td>						-			_
45Y         110.85         596         78X         113.10         -         110Y         116.35         680           46X         110.90         528         78Y         113.15         -         111X         116.40         -           46Y         110.95         598         79X         113.20         -         111Y         116.45         682           47X         111.00         -         79Y         113.25         -         112X         116.50         -           47Y         111.05         600         80X         113.30         -         112Y         116.55         684           48X         111.15         602         81X         113.40         -         113Y         116.65         686           49X         111.20         -         81Y         113.50         -         114Y         116.75         688           50X         111.30         532         82Y         113.55         624         115X         116.75         688           50X         111.35         606         83X         113.50         -         115Y         116.85         690           51X         111.40         -         83X						-			678
46X         110.90         528         78Y         113.15         -         111X         116.40         -           46Y         110.95         598         79X         113.20         -         111Y         116.50         -           47X         111.05         600         80X         113.30         -         112Y         116.55         684           48X         111.10         530         80Y         113.35         620         113X         116.60         -           48Y         111.15         602         81X         113.40         -         113Y         116.65         686           49X         111.20         -         81Y         113.45         622         114X         116.70         -           49Y         111.25         604         82X         113.50         -         114Y         116.75         688           50X         111.30         532         82Y         113.55         624         115X         116.80         -           50Y         111.35         606         83X         113.60         -         115Y         116.85         690           51X         111.40         -         83Y						-			-
46Y         110.95         598         79X         113.20         -         111Y         116.45         682           47X         111.00         -         79Y         113.25         -         112X         116.50         -           47Y         111.05         600         80X         113.30         -         112Y         116.50         -           48X         111.10         530         80Y         113.35         620         113X         116.60         -           48Y         111.15         602         81X         113.40         -         113Y         116.65         686           49X         111.25         604         82X         113.50         -         114Y         116.75         688           50X         111.30         532         82Y         113.50         -         114Y         116.75         688           50X         111.35         606         83X         113.60         -         115Y         116.85         690           51X         111.40         -         83Y         113.65         626         116X         116.90         -           51Y         11.45         608         84X         1						-			680
47X         111.00         -         79Y         113.25         -         112X         116.50         -           47Y         111.05         600         80X         113.30         -         112Y         116.55         684           48X         111.10         530         80Y         113.35         620         113X         116.60         -           48Y         111.15         602         81X         113.40         -         113Y         116.65         686           49X         111.20         -         81Y         113.50         -         114Y         116.75         688           50X         111.30         532         82Y         113.50         -         114Y         116.75         688           50Y         111.35         606         83X         113.60         -         115Y         116.85         690           51X         111.45         608         84X         113.70         -         116Y         116.85         690           51X         111.45         608         84X         113.70         -         116Y         116.85         690           52X         111.50         534         84Y <t< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td>- 692</td></t<>						-			- 692
47Y         111.05         600         80X         113.30         -         112Y         116.55         684           48X         111.10         530         80Y         113.35         620         113X         116.60         -           48Y         111.15         602         81X         113.40         -         113Y         116.65         686           49X         111.20         -         81Y         113.45         622         114X         116.70         -           49Y         111.25         604         82X         113.50         -         114Y         116.75         688           50X         111.35         606         83X         113.50         -         114Y         116.75         688           50X         111.35         606         83X         113.65         624         115X         116.80         -90           51X         111.40         -         83Y         113.65         626         116X         116.90         -           51Y         111.45         608         84X         113.70         -         116Y         116.95         692           52X         111.50         534         84Y			598			-			082
48X         111.10         530         80Y         113.35         620         113X         116.60         -           48Y         111.15         602         81X         113.40         -         113Y         116.65         686           49X         111.20         -         81Y         113.45         622         114X         116.70         -           49Y         111.25         604         82X         113.50         -         114Y         116.75         688           50X         111.30         532         82Y         113.55         624         115X         116.80         -           50Y         111.35         606         83X         113.60         -         115Y         116.85         690           51X         111.40         -         83Y         113.60         -         115Y         116.85         690           51Y         111.45         608         84X         113.70         -         116Y         116.95         692           52X         111.50         534         84Y         113.75         628         117X         117.00         -           52Y         111.55         610         85X			600			-			691
48Y         111.15         602         81X         113.40         -         113Y         116.65         686           49X         111.20         -         81Y         113.45         622         114X         116.70         -           49Y         111.25         604         82X         113.50         -         114Y         116.75         688           50X         111.30         532         82Y         113.55         624         115X         116.80         -           50Y         111.35         606         83X         113.60         -         115Y         116.85         690           51X         111.40         -         83Y         113.65         626         116X         116.90         -           51Y         111.45         608         84X         113.70         -         116Y         116.95         692           52X         111.50         534         84Y         113.70         -         116Y         116.95         692           52X         111.55         610         85X         113.80         -         117Y         117.00         -           53X         111.60         -         85Y						620			
49X         111.20         -         81Y         113.45         622         114X         116.70         -           49Y         111.25         604         82X         113.50         -         114Y         116.75         688           50X         111.30         532         82Y         113.55         624         115X         116.80         -           50Y         111.35         606         83X         113.60         -         115Y         116.85         690           51X         111.40         -         83Y         113.65         626         116X         116.90         -           51Y         111.45         608         84X         113.70         -         116Y         116.95         692           52X         111.50         534         84Y         113.75         628         117X         117.00         -           52Y         111.55         610         85X         113.85         630         118X         117.10         -           53X         111.60         -         85Y         113.85         630         118X         117.10         -           53Y         111.65         612         86X <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td></t<>									_
49Y         111.25         604         82X         113.50         -         114Y         116.75         688           50X         111.30         532         82Y         113.55         624         115X         116.80         -           50Y         111.35         606         83X         113.65         626         115Y         116.85         690           51X         111.40         -         83Y         113.65         626         116X         116.90         -           51Y         111.45         608         84X         113.70         -         116Y         116.95         692           52X         111.50         534         84Y         113.75         628         117X         117.00         -           52Y         111.55         610         85X         113.85         630         118X         117.10         -           53X         111.60         -         85Y         113.85         630         118X         117.10         -           53Y         111.65         612         86X         113.95         632         118X         117.10         -           54Y         111.75         614         87X									
50X         111.30         532         82Y         113.55         624         115X         116.80         -           50Y         111.35         606         83X         113.60         -         115Y         116.85         690           51X         111.40         -         83Y         113.65         626         116X         116.90         -           51Y         111.45         608         84X         113.70         -         116Y         116.95         692           52X         111.50         534         84Y         113.75         628         117X         117.00         -           52Y         111.55         610         85X         113.80         -         117Y         117.05         694           53X         111.60         -         85Y         113.85         630         118X         117.10         -           53Y         111.65         612         86X         113.90         -         118Y         117.15         696           54X         111.70         536         86Y         113.95         632         119X         117.25         698           55X         111.80         -         87Y									
50Y         111.35         606         83X         113.60         -         115Y         116.85         690           51X         111.40         -         83Y         113.65         626         116X         116.90         -           51Y         111.45         608         84X         113.70         -         116Y         116.95         692           52X         111.50         534         84Y         113.75         628         117X         117.00         -           52Y         111.55         610         85X         113.80         -         117Y         117.05         694           53X         111.60         -         85Y         113.85         630         118X         117.10         -           53Y         111.65         612         86X         113.90         -         118Y         117.15         696           54X         111.70         536         86Y         113.95         632         119X         117.20         -           54Y         111.75         614         87X         114.00         -         119Y         117.25         698           55X         111.80         -         87Y <t< td=""><td></td><td></td><td></td><td></td><td></td><td>624</td><td></td><td></td><td>-</td></t<>						624			-
51X         111.40         -         83Y         113.65         626         116X         116.90         -           51Y         111.45         608         84X         113.70         -         116Y         116.95         692           52X         111.50         534         84Y         113.75         628         117X         117.00         -           52Y         111.55         610         85X         113.80         -         117Y         117.05         694           53X         111.60         -         85Y         113.85         630         118X         117.10         -           53Y         111.65         612         86X         113.95         632         119X         117.15         696           54X         111.70         536         86Y         113.95         632         119X         117.20         -           54Y         111.75         614         87X         114.00         -         119Y         117.25         698           55X         111.80         -         87Y         114.05         634         120X         117.30         -           55Y         111.85         616         88X									690
51Y         111.45         608         84X         113.70         -         116Y         116.95         692           52X         111.50         534         84Y         113.75         628         117X         117.00         -           52Y         111.55         610         85X         113.80         -         117Y         117.05         694           53X         111.60         -         85Y         113.85         630         118X         117.10         -           53Y         111.65         612         86X         113.90         -         118Y         117.15         696           54X         111.70         536         86Y         113.95         632         119X         117.20         -           54Y         111.75         614         87X         114.05         634         120X         117.30         -           55Y         111.80         -         87Y         114.05         634         120X         117.30         -           56X         111.90         538         88Y         114.15         636         121X         117.40         -           56Y         111.95         618         89X						626			
52X         111.50         534         84Y         113.75         628         117X         117.00         -           52Y         111.55         610         85X         113.80         -         117Y         117.05         694           53X         111.60         -         85Y         113.85         630         118X         117.10         -           53Y         111.65         612         86X         113.95         632         119X         117.20         -           54X         111.70         536         86Y         113.95         632         119X         117.20         -           54Y         111.75         614         87X         114.00         -         119Y         117.25         698           55X         111.80         -         87Y         114.05         634         120X         117.30         -           55Y         111.85         616         88X         114.10         -         120Y         117.35         -           56X         111.90         538         88Y         114.15         636         121X         117.40         -           56Y         111.95         618         89X <t< td=""><td></td><td></td><td>608</td><td></td><td></td><td>-</td><td></td><td></td><td>692</td></t<>			608			-			692
52Y         111.55         610         85X         113.80         -         117Y         117.05         694           53X         111.60         -         85Y         113.85         630         118X         117.10         -           53Y         111.65         612         86X         113.90         -         118Y         117.15         696           54X         111.70         536         86Y         113.95         632         119X         117.20         -           54Y         111.75         614         87X         114.00         -         119Y         117.25         698           55X         111.80         -         87Y         114.05         634         120X         117.30         -           55Y         111.85         616         88X         114.10         -         120Y         117.35         -           56X         111.90         538         88Y         114.10         -         120Y         117.35         -           56Y         111.95         618         89X         114.20         -         121Y         117.40         -           57Y         112.00         -         89Y         114.						628			-
53X         111.60         -         85Y         113.85         630         118X         117.10         -           53Y         111.65         612         86X         113.90         -         118Y         117.15         696           54X         111.70         536         86Y         113.95         632         119X         117.20         -           54Y         111.75         614         87X         114.00         -         119Y         117.25         698           55X         111.80         -         87Y         114.05         634         120X         117.30         -           55Y         111.85         616         88X         114.10         -         120Y         117.35         -           56X         111.90         538         88Y         114.15         636         121X         117.40         -           56Y         111.95         618         89X         114.25         638         122X         117.50         -           57X         112.00         -         89Y         114.25         638         122X         117.50         -           57Y         112.05         -         90X         11									694
53Y         111.65         612         86X         113.90         -         118Y         117.15         696           54X         111.70         536         86Y         113.95         632         119X         117.20         -           54Y         111.75         614         87X         114.00         -         119Y         117.25         698           55X         111.80         -         87Y         114.05         634         120X         117.30         -           55Y         111.85         616         88X         114.10         -         120Y         117.35         -           56X         111.90         538         88Y         114.15         636         121X         117.40         -           56Y         111.95         618         89X         114.20         -         121Y         117.45         -           57X         112.00         -         89Y         114.25         638         122X         117.50         -           57Y         112.05         -         90X         114.30         -         122Y         117.55         -           58X         112.10         -         90Y         114.35			-			630			-
54X         111.70         536         86Y         113.95         632         119X         117.20         -           54Y         111.75         614         87X         114.00         -         119Y         117.25         698           55X         111.80         -         87Y         114.05         634         120X         117.30         -           55Y         111.85         616         88X         114.10         -         120Y         117.35         -           56X         111.90         538         88Y         114.15         636         121X         117.40         -           56Y         111.95         618         89X         114.20         -         121Y         117.45         -           57X         112.00         -         89Y         114.25         638         122X         117.50         -           57Y         112.05         -         90X         114.35         640         123X         117.60         -           58X         112.10         -         90Y         114.35         640         123X         117.60         -           58Y         112.15         -         91X         114.40			612						696
54Y         111.75         614         87X         114.00         -         119Y         117.25         698           55X         111.80         -         87Y         114.05         634         120X         117.30         -           55Y         111.85         616         88X         114.10         -         120Y         117.35         -           56X         111.90         538         88Y         114.15         636         121X         117.40         -           56Y         111.95         618         89X         114.20         -         121Y         117.45         -           57X         112.00         -         89Y         114.25         638         122X         117.50         -           57Y         112.05         -         90X         114.30         -         122Y         117.55         -           58X         112.10         -         90Y         114.35         640         123X         117.60         -           58Y         112.15         -         91X         114.40         -         123Y         117.65         -           59X         112.20         -         91Y         114.45						632			-
55X         111.80         -         87Y         114.05         634         120X         117.30         -           55Y         111.85         616         88X         114.10         -         120Y         117.35         -           56X         111.90         538         88Y         114.15         636         121X         117.40         -           56Y         111.95         618         89X         114.20         -         121Y         117.45         -           57X         112.00         -         89Y         114.25         638         122X         117.50         -           57Y         112.05         -         90X         114.30         -         122Y         117.55         -           58X         112.10         -         90Y         114.35         640         123X         117.60         -           58Y         112.15         -         91X         114.40         -         123Y         117.65         -           59X         112.20         -         91Y         114.45         642         124X         117.70         -           59Y         112.25         -         92X         114.50									698
56X         111.90         538         88Y         114.15         636         121X         117.40         -           56Y         111.95         618         89X         114.20         -         121Y         117.45         -           57X         112.00         -         89Y         114.25         638         122X         117.50         -           57Y         112.05         -         90X         114.30         -         122Y         117.55         -           58X         112.10         -         90Y         114.35         640         123X         117.60         -           58Y         112.15         -         91X         114.40         -         123Y         117.65         -           59X         112.20         -         91Y         114.45         642         124X         117.70         -           59Y         112.25         -         92X         114.50         -         124Y         117.75         -           60X         133.30         -         92Y         114.55         644         125X         117.80         -           60Y         133.36         -         93X         114.60						634			-
56Y         111.95         618         89X         114.20         -         121Y         117.45         -           57X         112.00         -         89Y         114.25         638         122X         117.50         -           57Y         112.05         -         90X         114.30         -         122Y         117.55         -           58X         112.10         -         90Y         114.35         640         123X         117.60         -           58Y         112.15         -         91X         114.40         -         123Y         117.65         -           59X         112.20         -         91Y         114.45         642         124X         117.70         -           59Y         112.25         -         92X         114.50         -         124Y         117.75         -           60X         133.30         -         92Y         114.55         644         125X         117.80         -           60Y         133.35         -         93X         114.60         -         125Y         117.85         -           61X         133.40         -         93Y         114.65	55Y	111.85	616	88X	114.10	-	120Y	117.35	-
57X     112.00     -     89Y     114.25     638     122X     117.50     -       57Y     112.05     -     90X     114.30     -     122Y     117.55     -       58X     112.10     -     90Y     114.35     640     123X     117.60     -       58Y     112.15     -     91X     114.40     -     123Y     117.65     -       59X     112.20     -     91Y     114.45     642     124X     117.70     -       59Y     112.25     -     92X     114.50     -     124Y     117.75     -       60X     133.30     -     92Y     114.55     644     125X     117.80     -       60Y     133.35     -     93X     114.60     -     125Y     117.85     -       61X     133.40     -     93Y     114.65     646     126X     117.90     -       61Y     133.45     -     94X     114.75     648	56X	111.90	538	88Y	114.15	636	121X	117.40	-
57Y         112.05         -         90X         114.30         -         122Y         117.55         -           58X         112.10         -         90Y         114.35         640         123X         117.60         -           58Y         112.15         -         91X         114.40         -         123Y         117.65         -           59X         112.20         -         91Y         114.45         642         124X         117.70         -           59Y         112.25         -         92X         114.50         -         124Y         117.75         -           60X         133.30         -         92Y         114.55         644         125X         117.80         -           60Y         133.35         -         93X         114.60         -         125Y         117.85         -           61X         133.40         -         93Y         114.65         646         126X         117.90         -           62X         133.50         -         94Y         114.75         648	56Y	111.95	618	89X	114.20	-	121Y	117.45	-
58X         112.10         -         90Y         114.35         640         123X         117.60         -           58Y         112.15         -         91X         114.40         -         123Y         117.65         -           59X         112.20         -         91Y         114.45         642         124X         117.70         -           59Y         112.25         -         92X         114.50         -         124Y         117.75         -           60X         133.30         -         92Y         114.55         644         125X         117.80         -           60Y         133.35         -         93X         114.60         -         125Y         117.85         -           61X         133.40         -         93Y         114.65         646         126X         117.90         -           61Y         133.45         -         94X         114.75         648         126Y         117.95         -           62X         133.50         -         94Y         114.75         648         126Y         117.95         -	57X	112.00	-	89Y	114.25	638	122X	117.50	-
58Y     112.15     -     91X     114.40     -     123Y     117.65     -       59X     112.20     -     91Y     114.45     642     124X     117.70     -       59Y     112.25     -     92X     114.50     -     124Y     117.75     -       60X     133.30     -     92Y     114.55     644     125X     117.80     -       60Y     133.35     -     93X     114.60     -     125Y     117.85     -       61X     133.40     -     93Y     114.65     646     126X     117.90     -       61Y     133.45     -     94X     114.70     -     126Y     117.95     -       62X     133.50     -     94Y     114.75     648	57Y	112.05	-	90X	114.30	-	122Y	117.55	-
59X         112.20         -         91Y         114.45         642         124X         117.70         -           59Y         112.25         -         92X         114.50         -         124Y         117.75         -           60X         133.30         -         92Y         114.55         644         125X         117.80         -           60Y         133.35         -         93X         114.60         -         125Y         117.85         -           61X         133.40         -         93Y         114.65         646         126X         117.90         -           61Y         133.45         -         94X         114.70         -         126Y         117.95         -           62X         133.50         -         94Y         114.75         648         -	58X		-		114.35	640	123X		-
59Y     112.25     -     92X     114.50     -     124Y     117.75     -       60X     133.30     -     92Y     114.55     644     125X     117.80     -       60Y     133.35     -     93X     114.60     -     125Y     117.85     -       61X     133.40     -     93Y     114.65     646     126X     117.90     -       61Y     133.45     -     94X     114.70     -     126Y     117.95     -       62X     133.50     -     94Y     114.75     648	58Y	112.15	-	91X	114.40	-	123Y	117.65	-
60X     133.30     -     92Y     114.55     644     125X     117.80     -       60Y     133.35     -     93X     114.60     -     125Y     117.85     -       61X     133.40     -     93Y     114.65     646     126X     117.90     -       61Y     133.45     -     94X     114.70     -     126Y     117.95     -       62X     133.50     -     94Y     114.75     648	59X	112.20	-	91Y	114.45	642	124X	117.70	-
60Y     133.35     -     93X     114.60     -     125Y     117.85     -       61X     133.40     -     93Y     114.65     646     126X     117.90     -       61Y     133.45     -     94X     114.70     -     126Y     117.95     -       62X     133.50     -     94Y     114.75     648	59Y	112.25	-	92X	114.50	-	124Y	117.75	-
61X 133.40 - 93Y 114.65 646 126X 117.90 - 61Y 133.45 - 94X 114.70 - 126Y 117.95 - 62X 133.50 - 94Y 114.75 648	60X	133.30	-	92Y	114.55	644	125X	117.80	-
61Y 133.45 - 94X 114.70 - 126Y 117.95 - 62X 133.50 - 94Y 114.75 648	60Y	133.35	-	93X	114.60	-	125Y	117.85	-
62X 133.50 - 94Y 114.75 648	61X	133.40	-		114.65	646	126X	117.90	-
	61Y	133.45	-	94X	114.70	-	126Y	117.95	-
62Y 133.55 - 95X 114.80 -			-			648			
	62Y	133.55	-	95X	114.80	-			

# 35 COMM/NAV/WEATHER REMARKS:

These remarks consist of pertinent information affecting the current status of communications, NAVAIDs and weather.

ABBEVILLE CHRIS CRUSTA MEM (ØR3) 3 E UTC-6(-5DT) N29°58.55′ W92°05.05′

HOUSTON H-7D, L-21B, 22E, GOMC

16 B S4 FUEL 100LL, JET A TPA—See Remarks NOTAM FILE DRI RWY 15-33: H5000X75 (ASPH) S-17 MIRL

RWY 15: REIL. PAPI(P2L)—GA 3.0° TCH 50'. Fence.

**RWY 33:** REIL. PAPI(P2L)—GA 3.0° TCH 50′. Trees.

AIRPORT REMARKS: Attended daylight hours. TPA for fixed wing 1001(985), helicopter 501(485) within 3 miles of arpt and ultralight 301(285). Rwy 15–33 has some small cracks. MIRL Rwy 15–33 and REIL Rwy 15 and Rwy 33 preset on low intensity dusk to dawn, to increase intensity ACTIVATE—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.875 (337) 892-0526. COMMUNICATIONS: CTAF/UNICOM 122.8

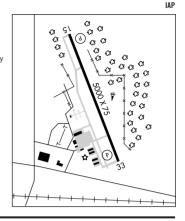
GCO 135.075 (LAFAYETTE APCH and DE RIDDER FSS)

R LAFAYETTE APP/DEP CON 121.1 (1130-0430Z‡)

HOUSTON CENTER APP/DEP CON 126.35 (0430-1130Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE LFT.

**LAFAYETTE (L) VORTACW** 109.8 LFT Chan 35 N30°11.63′ W91°59.55′ 197° 13.9 NM to fid. 36/3E. **HIWAS.** 



ACADI N29°57.38′ W91°51.80′ NOTAM FILE ARA.

NDB (MHW/LOM) 269 AR 345° 5.0 NM to Acadiana Rgnl.

HOUSTON L-21B. 22E. GOMC

ACADIANA RGNL (See NEW IBERIA)

#### **ALEXANDRIA**

ALEXANDRIA INTL (AEX) 4 W UTC-6(-5DT) N31°19.64′ W92°32.91′
89 B S4 FUEL 100, JET A, MOGAS OX 2, 4 Class I, ARFF Index D
NOTAM FILE AEX

HOUSTON H-61, L-21B, 22E IAP, AD

RWY 14-32: H9352X150 (CONC-GRVD) S-81, D-180, DT-330, DDT-850 HIRL

RWY 14: SSALR. PAPI(P4L)—GA 3.0° TCH 55'. Trees.

RWY 32: REIL. PAPI(P4L)—GA 3.0° TCH 55'.

**RWY 18-36**: H7001X150 (ASPH-CONC-GRVD) S-75, D-130, DT-191, DDT-502 HIRL

RWY 18: REIL. PAPI(P4L)—GA 3.0° TCH 64'. Trees.

RWY 36: REIL. PAPI(P4L)—GA 3.0° TCH 61'. Trees.

#### RUNWAY DECLARED DISTANCE INFORMATION

 RWY 14: TORA-9352
 TODA-9352
 ASDA-9352
 LDA-9352

 RWY 18: TORA-7001
 TODA-7001
 ASDA-7001
 LDA-7001

 RWY 32: TORA-9352
 TODA-9352
 ASDA-9352
 LDA-9352

 RWY 36: TORA-7001
 TODA-7001
 ASDA-7001
 LDA-7001

AIRPORT REMARKS: Attended continuously. Extensive helicopter tfc during military exercises. Center 75' of first 3000' of Rwy 18 is concrete, remainder is asphalt. Rwy 18–36 center 1800' at intersection with Rwy 14–32 in fair condition due to Raveling. Locked wheel and sharp turns prohibited on asph surfaces. Light acft frequently cross apch zones to Rwy 14–32 blo 2000' MSL. Commercial and lifeguard acft only on Commercial Terminal Ramp, all other acft utilize Twy A to FBO. Twy G clsd indef. Twy E clsd indef.

WEATHER DATA SOURCES: ASOS 123.975 (318) 442–6583. HIWAS 116.1 AEX COMMUNICATIONS: CTAF 127.35

R POLK APP/DEP CON 125.4

TOWER 127.35 GND CON 121.9 CLNC DEL 121.9

RADIO AIDS TO NAVIGATION: NOTAM FILE AEX.

(H) VORTACW 116.1 AEX Chan 108 N31°15.40′ W92°30.06′ 327° 4.9 NM to fld. 80/3E. HIWAS DME portion unusable  $285^{\circ}$ – $245^{\circ}$  byd 35 NM blo 1700′,  $245^{\circ}$ – $285^{\circ}$  byd 35 NM blo 1900′.

ILS 110.1 I-ERJ Rwy 14. Class 1T.

PAR

COMM/NAV/WEATHER REMARKS: Multicom frequency 130.0 avbl.

O €3 €3 63 **3 3** Ωı **43** G G €3 €3 €3 63 ß C3 C3 63 0 (3 C.

ESLER RGNL (ESF) 10 NE UTC-6(-5DT) N31°23.69′ W92°17.75′

112 B FUEL 100LL, JET A NOTAM FILE ESF

H-6I, L-21B, 22E

RWY 08-26: H5999X150 (ASPH-GRVD) S-75, D-150, DT-220 RWY 08: REIL. VASI(V4L)—GA 3.0° TCH 32'. RWY 26: MALSR

RWY 14-32: H5601X150 (ASPH-GRVD) S-75, D-150, DT-220 MIRL 0.4% up NW

RWY 14: REIL. PAPI(P4L)-GA 3.0° TCH 60'. Trees.

RWY 32: REIL. VASI(V4L)-GA 3.0° TCH 56'. Tree.

#### RUNWAY DECLARED DISTANCE INFORMATION

RWY 08: TORA-5999 TODA-5999 ASDA-5999 LDA-5999 TORA-5601 TODA-5601 ASDA-5601 RWY 14. LDA-5601 RWY 26-TORA-5999 TODA-5999 ASDA-5999 LDA-5999 TORA-5601 TODA-5601 ASDA-5601 LDA-5601 RWY 32: AIRPORT REMARKS: Attended Mon-Fri 1300-2230Z‡. Fuel avbl Mon-Fri 1300-2200Z‡ and Sat-Sun 1300-0100Z‡. On call Sat-Sun after 0100Z ± 318-443-5566. Birds on and invof arpt seasonally. PAEW adjacent rwys and twys. Twys F and G clsd indef. Pilot controlled lighting for Rwy 08-26 OTS indef. VASI Rwy 32 OTS indef. Rwy 14 REIL medium ints only. ACTIVATE MIRL Rwy 14-32, HIRL Rwy 08-26, MALSR Rwy 26 REIL Rwy 08, Rwy 14 and Rwy 32. and twy lgts Twy A. Twy B. Twy C. Twy D and Twy E-CTAF.

WEATHER DATA SOURCES: ASOS (318) 484-9031. Thunderstorm/freezing rain not avbl. Wind unreliable.

COMMUNICATIONS: CTAF/UNICOM 122.8

ESLER RCO 122.55 (DE RIDDER RADIO)

R POLK APP/DEP CON 125.4

RADIO AIDS TO NAVIGATION: NOTAM FILE AEX.

ALEXANDRIA (H) VORTACW 116.1 AEX Chan 108 N31°15.40′ W92°30.04′ 049° 13.4 NM to fld. 80/3F

ANDRA NDB (LOM) 223 ES N31°23.52′ W92°10.92′ 268° 5.9 NM to fld. Unmonitored. ILS/DME 111.5 I-ESF Chan 52 Rwy 26. Class IA. LOM ANDRA NDB. ILS/DME and LOM unmonitored.

ALLEN PARISH (See OAKDALE)

ALVIN CALLENDER FLD (See NEW ORLEANS NAS JRB)

ANDRA N31°23.52′ W92°10.92′ NOTAM FILE ESF.

NDB (LOM) 223 ES 268° 5.9 NM to Esler Rgnl. Unmonitored.

ANGER N30°36.38′ W90°25.27′ NOTAM FILE DRI.

NDB (LOM) 212 HP 174° 5.1 NM to Hammond Northshore Rgnl. Unmonitored.

ARCADIA-BIENVILLE PARISH (5FØ) 2 SW UTC-6(-5DT) N32°31.84′ W92°57.24′ 440 B NOTAM FILE DRI

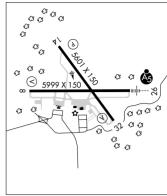
RWY 14-32: H3000X75 (ASPH) S-16 MIRI

RWY 32: Trees. RWY 14: Trees

AIRPORT REMARKS: Unattended. For arpt attendant call 318-263-2013. Golf course adjacent to arpt. +4' fence 185' south of Rwy 32 thld. Rotating bcn 1 mile SE of arpt. ACTIVATE MIRL Rwy 14-32-CTAF. COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE DRI.

ELM GROVE (L) VORTAC 111.2 EMG Chan 49 N32°24.01' W93°35.71' 069° 33.5 NM to fld. 160/7E. HIWAS.



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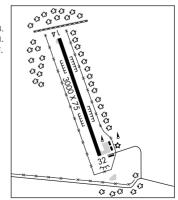
HOUSTON

MEMPHIS

L-17E

**NEW ORLEANS** 

ΙΔΡ



ATLANTIS (ATP) N27°11.73′ W90°01.62′ L-21B. GOMC AWNS-3 119 525

**BARKSDALE AFB** (BAD)(KBAD) AF 3 E UTC-6(-5DT) N32°30.12′ W93°39.76′

MEMPHIS 166 B TPA—See Remarks AOE NOTAM FILE DRI Not insp. H-61, L-17E DIAP. AD

RWY 15-33: H11777X300 (PEM) S-155, T-260, ST-175, TT-500, AUW-800 PCN 73 R/B/W/T HIRL

RWY 15: ALSF1. PAPI(P4L). RWY 33: ALSF1. PAPI(P4L).

ARRESTING GEAR/SYSTEMS

BAK-12B(B)(1100') RWY 33

MILITARY SERVICE: LGT Rwy 15 and Rwy 33 Sequence Flashing Lights offset 2.5' from centerline. A-GEAR BAK12B for Air Warrior acft use only, unsyc other times, W Side A-Gear mark permanently removed. JASU 1(MA-1A) 7(A/M32A-86) 1(A/M32A-95) 1(A/M32A-60) FUEL J8 FLUID W SP PRESAIR LHOX LOX 0-132-133-148-156 JOAP TRAN ALERT Tran maintenance hrs of svc are Mon-Fri 1400-0100Z±. Sat and Sun 1400-0000Z‡. Clsd holidays. No priority basis. Expect svc delays of 2 hrs or more. Ltd fleet svc avbl. No demineralized water avbl.

MILITARY REMARKS: Attended continuously, Clsd holidays, RSTD PPR, call Base OPS DSN 781-3226/4978 or C318-456-3226. Call Comd Post for multi apch DSN 781-2151. Practice apch may be restricted by twr, depending on tfc and time of day. PPR issued up to 7 days prior to arr. PPR good for +/-15 minute PPR time. Coordination of PPR outside of block time by telephone is rqr or PPR Number will be considered cancelled. Engine running offload ops not permitted. 180° turns for C135 and heavy acft are authorized in the first 750' Rwy 15 and the first 1000' Rwy 33. Tran acft with ordnance not authorized. Twy C restricted to assigned A-10 and small propeller acft. Twy E. E1, and Twy C unlighted and usable for daylgt VFR only. Training for tran acft will not be permitted to interfere with local acft opr. Non-ACC acft may be subjected to less than required Quantity-Distance separation due munitions opr. Aircrews should exercise appropriate risk management in determining airfld suitability. All tran aircrews must report to Base OPS. CAUTION Lgt acft and parachute opr invof Shreveport Downtown 3.3 NM NW during final apch Rwy 15 and dep Rwy 33. TFC PAT Retangular 1200' (1034'), Overhead 1700' (1534') VFR helicopter enter tfc pattern at 700(534) from E and 1000(834) from W. Overflight of munitions storage area E-NE fld not authorized. MISC Weather briefing for transient aircrews byd normal opr hr avbl via 26 OWS at Barksdale AFB DSN 781-3024. Observed surface visibility restricted from 150° to 330° by obstructions and lack of visibility markers byd 2 mi. First 1184' Rwy 15 and first 1600' Rwy 33 is conc. Middle 8972' is asph with first 3000' at each end having a 75' wide conc keel surface in center and the middle 2972' having a 50' conc keel surface. Acft with distinguished visitor ctc PTD or Comd Post at least 20 minutes prior to ETA. ACC RSRS applied to Acc acft only.

COMMUNICATIONS: ATIS 307.025 PTD 254.425

R SHREVEPORT APP/DEP CON 123.75 327.0 (320°-152°) 119.9 335.55 (153°-319°)

TOWER 128.25 278.3 Clsd holidays.

GND CON 121.8 275.8

COMD POST (Call RAYMOND 06) 311.0 321.0 PMSV METRO 227.4 (No svc outside airfield opr hrs, ctc Comd Post) AfId wx is monitored by AN/FMQ-19 ASOS and augmented by human observer dur afId opr hrs.

AIRSPACE: CLASS C svc ctc APP CON.

RADIO AIDS TO NAVIGATION: NOTAM FILE DRI.

ELM GROVE (L) VORTAC 111.2 EMG Chan 49 N32°24.01′ W93°35.71′ 324° 7.0 NM to fld. 160/7E. HIWAS. BELCHER (H) VORTACW 117.4 EIC Chan 121 N32°46.28′ W93°48.60′ 148° 17.8 NM to fld. 190/7E. NOTAM FILE SHV

(I) TACAN Chan 105 BAD (115.8) N32°30.20′ W93°40.07′ at fld. 163/5E, NOTAM FILE BAD, Monitored during published opr hrs only. TACAN No NOTAM MP Wed 1600-1800Z‡. TACAN unusable:

180°-270° byd 26 NM blo 4,000' 041°-070° byd 20 NM blo 5,000'

071°-109° bvd 35 NM blo 3.000' 270°-284° bvd 15 NM

Rwy 15. ILS No NOTAM MP Tue, Thu 1100–1400Z‡. Monitored during published opr ILS 108.9 I-JKC hrs only.

ILS 109.9 I-BAD Rwy 33. ILS No NOTAM MP Tue, Thu 1100-1400Z‡. Monitored during published opr hrs only.

ASR (1100-0600Z‡)

COMM/NAV/WEATHER REMARKS: Radar see Terminal FLIP for Radar Minima.

#### **BASTROP**

 MOREHOUSE MEM
 (BQP)
 2 SE
 UTC-6(-5DT)
 N32°45.37′ W91°52.84′

 168
 B
 S4
 FUEL
 100LL
 TPA—1200(1033)
 NOTAM FILE DRI

RWY 16-34: H4002X100 (ASPH) S-15.5 MIRL RWY 16: REIL. PAP(P2L)—GA 3.0° TCH 50'. Trees.

RWY 34: REIL. PAPI(P2L)—GA 3.0° TCH 50'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1315–2100Z‡. Self serve fuel avbl 24 hrs with credit card. Deer on and invof rwy. Wind tee lights OTS indef. Rwy 34 REIL OTS indef. MIRL Rwy 16–34, REIL Rwy 16 and Rwy 34 preset low ints dusk to dawn, to increase ints ACTIVATE—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.375 (318) 281-1443.

COMMUNICATIONS: CTAF/UNICOM 122.8

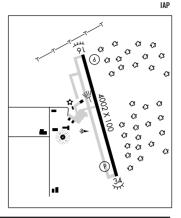
GCO 135.075 (DE RIDDER FSS)

MONROE APP/DEP CON 126.9 (1200-0400Z‡).

**R** FORT WORTH CENTER APP/DEP CON 126.325 (0400-1200Z‡).

RADIO AIDS TO NAVIGATION: NOTAM FILE MLU.

MONROE (L) VORTACW 117.2 MLU Chan 119 N32°31.01′ W92°02.16′ 026° 16.3 NM to fld. 80/3E. HIWAS. BASTROP NDB (MHW) 329 BQP N32°45.28′ W91°53.01′ fld. NOTAM FILE DRI.



BASTROP N32°45.28′ W91°53.01′ NOTAM FILE DRI.

NDB (MHW) 329 BOP at Morehouse Mem.

MEMPHIS L-18F

**MEMPHIS** 

L-18F

BATON ROUGE METROPOLITAN. RYAN FLD

(BTR) 4 N UTC-6(-5DT)

HOUSTON

N30°31.97′ W91°08.99′

70 B S4 FUEL 100LL, JET A OX 1, 3 LRA Class I, ARFF Index C NOTAM FILE BTR

IAP AN

RWY 04L-22R: H7500X150 (CONC-GRVD) S-120, D-170, DT-300 HIRL CL

RWY 04L: VASI(V4L)—GA 3.0° TCH 52'. Thid dspicd 600'. Pole. RWY 22R: MALSR. TDZL. VASI(V4L)—GA 3.0° TCH 52'. Thid dspicd 424'. Trees. Rgt tfc.

RWY 13-31: H7004X150 (ASPH-GRVD) S-120, D-170, DT-300

RWY 13: MALSR. Thid dspicd 597'. Pole.

RWY 31: MALS. VASI(V4L)—GA 3.0° TCH 52'. Thid dspicd 315'.

RWY 04R-22L: H3799X75 (ASPH) S-30, D-45 MIRL

RWY 04R: PAPI(P2L). Tree. Rgt tfc. RWY 22L: PAPI(P2L). Tree.

LAND AND HOLD SHORT OPERATIONS

RWY 13 04-22R 4140
RWY 22L 1.3-31 2900
RWY 22R 1.3-31 3450

RUNWAY DECLARED DISTANCE INFORMATION

 RWY 04L:
 TORA-7500
 TODA-7500
 ASDA-7500
 LDA-6900

 RWY 04R:
 TORA-3799
 TODA-3799
 ASDA-3799
 LDA-3799

 RWY 13:
 TORA-7004
 TODA-7004
 ASDA-7004
 LDA-6407

 RWY 22L:
 TORA-3799
 TODA-3799
 ASDA-3799
 LDA-3799

 RWY 22R:
 TORA-7500
 TODA-7500
 ASDA-7500
 LDA-7076

 RWY 31:
 TORA-7004
 TODA-7004
 ASDA-7004
 LDA-6691

 ARRESTING GEAR/SYSTEMS

€3 Tank Farm 😞 G G €3 ் **ஆ** E) €3 Œ G ~ **(3** n @3/\Q C3 0 0 B 33 a 'n

RWY 13 EMAS 300' X 150'

AIRPORT REMARKS: Attended 1100–0600Z‡. Rwy 13–31 CLOSED indef. 24 hrs PPR for unscheduled air carrier ops with more than 30 passenger seats 0600–1100Z‡, call arpt manager 225–355–2068/0333. Rwy 04R–22L not avbl for air carrier ops with more than 30 passenger seats. Migratory birds on and in vicinity of arpt during months of Mar, Apr, Sep and Oct. When twr clsd use 121.9 to ctc ARFF for emergency request. Ramp and twy lane adjacent to the commercial air carrier terminal building is limited to commercial air carrier and passenger airtaxi acft only. Twy L weight restrictions: single 68,000 pounds, dual 75,000 pounds, dual tandem 106,000 pounds. Twy E weight restrictions: single 44,000 lbs, dual 55,000 lbs, dual tandem 93,000 lbs. Twy B clsd between Rwy 13–31 and Twy A indef. Twy M clsd indefinitely. Rwy 13 MALS 0TS indef. Rwy 31 VASI and Rwy 31 MALS OTS indef. ACTIVATE MALSR Rwy 22R and Rwy 13 and MALS Rwy 31—CTAF. When twr clsd HIRL Rwy 13–31 and Rwy 04L–22R preset low intst, to increase intst ACTIVATE—CTAF. MIRL Rwy 04R–22L not avbl. Flight Notification Service (ADCUS) available.

WEATHER DATA SOURCES: ASOS (225) 356-2305. LLWAS.

COMMUNICATIONS: CTAF 118.45 ATIS 125.2 UNICOM 122.95

RCO 122.2 (DE RIDDER RADIO)

- R APP/DEP CON 120.3 (West) 126.5 (East) (1100-0600Z‡)
- (R) HOUSTON CENTER APP/DEP CON 126.35 (0600-1100Z±)

TOWER 118.45 (1100-0600Z‡) GND CON 121.9 CLNC DEL 119.4

AIRSPACE: CLASS C svc 1100-0600Z‡ ctc APP CON other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE BTR.

(L) VORTACW 116.5 BTR Chan 112 N30°29.11′ W91°17.64′ 063° 8.0 NM to fld. 20/6E.

**RUNDI NDB (LOM)** 284 BT N30°34.97′ W91°12.66′ 130° 4.4 NM to fld.

ILS/DME 110.3 I-BTR Chan 40 Rwy 13. Class ID. LOM RUNDI NDB. ILS unmonitored when two clsd. ILS OTS indef.

ILS/DME 108.7 I-CLZ Chan 24 Rwy 22R. Class IE. ILS unmonitored when twr clsd.

ASR (1100-0600Z‡)

BEAUREGARD PARISH (See DE RIDDER)

 BELCHER
 N32°46.28′ W93°48.60′
 NOTAM FILE SHV.
 MEMPHIS

 (H) VORTACW 117.4
 EIC
 Chan 121
 160° 14.3 NM to Shreveport Downtown. 190/7E.
 H-6I, L-17E

BLUEBIRD HILL (See KEITHVILLE)

 BOGALUSA
 N30°52.90′ W89°51.73′
 NOTAM FILE DRI.
 NEW ORLEANS

 NDB (MHW) 353
 GVB
 182° 4.1 NM to George R. Carr Mem Air FId.
 L-21B, 22F

#### **BOGALUSA**

**GEORGE R. CARR MEM AIR FLD** (BXA) 2 N UTC-6(-5DT) N30°48.82′ W89°51.90′

119 B S4 FUEL 100LL, JET A NOTAM FILE DRI

RWY 18-36: H5000X100 (ASPH) S-22 MIRL

RWY 18: REIL. PAPI(P2L)-GA 3.0° TCH 19'. Thid dsplcd 594'. RWY 36: REIL. PAPI(P2L)-GA 3.0° TCH 52'. Thid dspicd 605'.

AIRPORT REMARKS: Attended 1400-2300Z‡. Rwy 18-36 pavement has some high and low areas, MIRL Rwv 18-36, REIL Rwv 18 and Rwv 36 preset low ints dusk-dawn to increase ints-CTAF.

WEATHER DATA SOURCES: AWOS-3 118.025 (985) 732-6224.

COMMUNICATIONS: CTAF/UNICOM 122.8

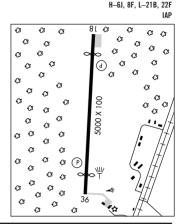
R HOUSTON CENTER APP/DEP CON 126.8 GCO 135.075 (DE RIDDER FSS)

RADIO AIDS TO NAVIGATION: NOTAM FILE GWO.

PICAYUNE (L) VORTAC 112.2 PCU Chan 59 N30°33.67' W89°43.83' 330° 16.6 NM to fld. 70/5E.

BOGALUSA NDB (MHW) 353 GVB N30°52.90′ W89°51.73′

182° 4.1 NM to fld. NOTAM FILE DRI. Unmonitored. ILS 111.1 I-BXA Rwv 18. LOM CARMA NDB, LOC only.



#### **BRISTOL**

KIBS AIR PARK (L89) 3SE UTC-6(-5DT) N30°22.88′ W92°08.76′

HOUSTON

NEW ORLEANS

51 FUEL MOGAS NOTAM FILE DRI

RWY 09-27: 2640X80 (TURF) RWY 09: Thid dsplcd 250', Road.

RWY 27: Trees

AIRPORT REMARKS: Attended continuously. Dsplcd thld marked with orange cones.

COMMUNICATIONS: CTAF 122.9

BUNKIE MUNI (2R6) 2 S UTC-6(-5DT) N30°57.40′ W92°14.05′

HOUSTON L-21B. 22E

62 B NOTAM FILE DRI RWY 18-36: H3005X75 (ASPH) S-8 MIRL

RWY 36: REIL. PAPI(P2L)—GA 3.25° TCH 26'. P-line.

RWY 18: REIL. PAPI(P2L)—GA 3.0° TCH 25'. AIRPORT REMARKS: Unattended. Emergency fuel avbl call 318-264-2922. MIRL Rwy 18-36, REIL Rwy 18 and Rwy 36 preset low ints dusk to dawn, to increase ints ACTIVATE-CTAF.

**COMMUNICATIONS: CTAF 122.9** 

(R) POLK APP/DEP CON 125.4

RADIO AIDS TO NAVIGATION: NOTAM FILE AEX.

ALEXANDRIA (H) VORTACW 116.1 AEX Chan 108 N31°15.40′ W92°30.06′ 140° 22.6 NM to fld.

80/3E. HIWAS

NDB (MHW) 397 BWK N30°51.93′ W92°14.05′ 357° 5.5 NM to fld. NOTAM FILE DRI.

BYERLEY (See LAKE PROVIDENCE)

CE 'RUSTY' WILLIAMS (See MANSFIELD)

CHENNAULT INTL (See LAKE CHARLES)

**COLUMBIA** (F86) 2 NE UTC-6(-5DT) N32°07.33′ W92°03.27′

67 B **FUEL** 100LL NOTAM FILE DRI

RWY 01-19: H3501X75 (ASPH) S-6 MIRL

RWY 01: SAVASI(S2L)—GA  $4.0^{\circ}$  TCH 20'. Trees.

RWY 19: SAVASI(S2L)—GA 4.0° TCH 20'. Trees.

AIRPORT REMARKS: Unattended. Fuel avbl 24 hrs with credit card.

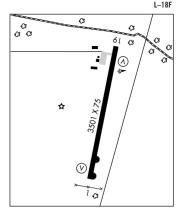
MIRL Rwy 01–19 preset low ints dusk to dawn, to incr ints

ACTIVATE\_CTAF

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE MLU.

MONROE (L) VORTACW 117.2 MLU Chan 119 N32°31.01′ W92°02.16′ 179° 23.7 NM to fld. 80/3E. HIWAS.



MEMPHIS

HOUSTON

CONCORDIA PARISH (See VIDALIA)

#### COUSHATTA

THE RED RIVER (ØR7) 2 SE UTC-6(-5DT) N31°59.42′ W93°18.46′

177 B NOTAM FILE DRI

1// B NOTAM FILE DRI

**RWY 17-35**: H5000X75 (ASPH) S-44 MIRL

**RWY 17:** REIL. PAPI(P2L)—GA 3.0° TCH 50′. Trees. **RWY 35:** REIL. PAPI(P2L)—GA 3.0° TCH 50′. Trees.

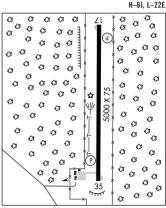
AIRPORT REMARKS: Unattended. MIRL Rwy 17–35, REIL Rwy 17 and Rwy 35 preset low ints dusk to dawn, to incr ints ACTIVATE—CTAF.

NOTE: See Special Notices—Aerobatic Practice Area.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE SHV.

**BELCHER (H) VORTACW** 117.4 EIC Chan 121 N32°46.28′ W93°48.60′ 144° 53.3 NM to fld. 190/7E.



#### COVINGTON

**ST TAMMANY RGNL** (L31) 6 SE UTC-6(-5DT) N30°26.70′ W89°59.33′

NEW ORLEANS L-21B. 22F

39 B **FUEL** 100LL NOTAM FILE DRI **RWY 18–36**: H2999X75 (ASPH) S-17.5 MIRL

RWY 18-36: H2999X75 (ASPH) S-17.5 MIRL RWY 18: SAVASI(S2L)—GA 4.0° TCH 19'. Trees.

RWY 36: SAVASI(S2L)-GA 4.0° TCH 21'. Trees.

AIRPORT REMARKS: Unattended. Self service fuel avbl 24 hrs with credit card. Rwy 18 and Rwy 36 SAVASI OTS indef.

MIRL Rwy 18–36 preset med int.

COMMUNICATIONS: CTAF/UNICOM 122.8

R NEW ORLEANS APP/DEP CON 133.15

RADIO AIDS TO NAVIGATION: NOTAM FILE GWO.

PICAYUNE (L) VORTAC 112.2 PCU Chan 59 N30°33.67′ W89°43.83′ 238° 15.1 NM to fld. 70/5E.

**CRAKK** N32°30.11′ W93°52.69′ NOTAM FILE SHV.

NDB (LOM) 230 SH 136° 4.2 NM to Shreveport Rgnl. SHUTDOWN.

**MEMPHIS** 

#### **CROWLEY**

LE GROS MEM (3R2) 7 SW UTC-6(-5DT) N30°09.71′ W92°29.04′

HOUSTON L-21B. 22E

MEMPHIS

HOUSTON

H-7D. L-21B. 22E

17 B FUEL 100LL NOTAM FILE DRI RWY 04-22: H4307X150 (CONC) S-30, D-47, DT-87

RWY 04: REIL. PAPI(P2L)-GA 3.0° TCH 50'.

RWY 22: REIL. PAPI(P2L)-GA 3.0° TCH 50'. Tower.

**RWY 13–31:** H4012X150 (CONC) S–30, D–47, DT–87

RWY 13: Thid dsplaced 240'. Road.

AIRPORT REMARKS: Attended Mon–Sat 1400–2300Z‡. 1790′ plus tower 8 miles out 1000′ right of centerline Rwy 31, 600′ plus tower 2 miles out AER 13. MIRL Rwy 04–22, REIL Rwy 04 and Rwy 22 preset low ints, to increase ints ACTIVATE—CTAF. NOTE: See Special Notices—Aerobatic Practice Area.

MIRI

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE LFT.

LAFAYETTE (L) VORTACW 109.8 LFT Chan 35 N30°11.63′ W91°59.55′ 263° 25.6 NM to fld. 36/3E. HIWAS.

### DAVID G. JOYCE (See WINNFIELD)

**DELHI MUNI** (ØM9) 3 S UTC-6(-5DT) N32°24.64′ W91°29.91′

91 B NOTAM FILE DRI

RWY 18-36: H3000X75 (ASPH) S-5 MIRL

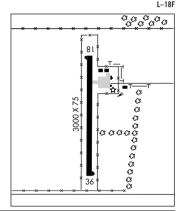
RWY 18: Road. RWY 36: Trees.

AIRPORT REMARKS: Unattended. Rwy 18–36 4' fence 123' from centerline on both sides of rwy. Rwy 18–36 cracked with grass in cracks. Pilot controlled lgtg OTS indef.

**COMMUNICATIONS: CTAF 122.9** 

RADIO AIDS TO NAVIGATION: NOTAM FILE MLU.

MONROE (L) VORTACW 117.2 MLU Chan 119 N32°31.01′ W92°02.16′ 100° 28.0 NM to fld. 80/3E. HIWAS.



DE QUINCY INDUSTRIAL AIRPARK (5R8) 2 SW UTC-6(-5DT) N30°26.47′ W93°28.41′

81 B NOTAM FILE DRI

RWY 15-33: H5000X75 (ASPH) S-18 MIRL

RWY 15: REIL. PAPI(P2L)—GA 3.0° TCH 50'. Trees.

RWY 33: REIL. PAPI(P2L)—GA 3.0° TCH 50'. Trees.

AIRPORT REMARKS: Unattended. MIRL Rwy 15–33 and REIL Rwy 15 and Rwy 33 preset low ints dusk-dawn, to increase ints ACTIVATE—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

(R) LAKE CHARLES APP/DEP CON 119.35 (1200-0400Z±)

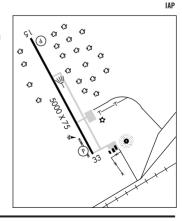
R HOUSTON CENTER APP/DEP CON 124.7 (0400-1200Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE LCH.

**LAKE CHARLES (H) VORTACW** 113.4 LCH Chan 81 N30°08.49′ W93°06.33′ 306° 26.2 NM to fld. 20/7E.

NDB(MHW) 410 DQU N30°26.13′ W93°28.01′ at fld.

NOTAM FILE DRI.



DE RIDDER BEAUREGARD RGNL (DRI) 3 SW UTC-6(-5DT) N30°49.90′ W93°20.40′ иптенин 202 B FUEL 100LL, JET A TPA-1202(1000) NOTAM FILE DRI H-61, L-21B, 22E RWY 18-36: H5495X100 (ASPH-CONC-AFSC) S-60 MIRI ΙΔΡ RWY 18: REIL. PAPI(P2L)-GA 3.15° TCH 33'. Trees. 0 0 0 0 0 0 Ø 13 ପ ପ ପ ପ ପ ପ જું છે <sub>છે</sub> છ RWY 36: ODALS. REIL. PAPI(P2L)-GA 3.0° TCH 27'. Trees. т.... RWY 14-32: H4220X60 (ASPH) RWY 14: Thid dsplcd 441'. Trees. ΩΙ C3 C3 RWY 32. Trees 03 03 AIRPORT REMARKS: Attended Mon-Fri 1330-2330Z‡, Sat, Sun and hol 1300-2300Z‡. For attendant other times call 337-375-4672. €3 Fuel avbl 24 hrs self svc with credit card, Rwv 36 ODALS OTS €3 indef. REIL Rwy 18 and Rwy 36 OTS indef. MIRL Rwy 18-36, REIL €3 Rwy 18 and Rwy 36 preset low ints dusk to dawn, to increase ints 63 ACTIVATE-CTAF. **(3** WEATHER DATA SOURCES: AWOS-3 118.225 (337) 463-8278. €3 G, G G a COMMUNICATIONS: CTAF/UNICOM 122.8 ß aa DE RIDDER RCO 122.2 (DE RIDDER RADIO) G G G R POLK APP/DEP CON 123.7 <sub>ര</sub>മ്മ് മ്മ് €3 (P) RADIO AIDS TO NAVIGATION: NOTAM FILE LCH. LAKE CHARLES (H) VORTACW 113.4 LCH Chan 81 N30°08.49' 0 0 0 0 Œ c <sup>36</sup> W93°06 33' 337° 43.1 NM to fld. 20/7E. 0 0 0 0 0 0 DXB N30°45.13′ W93°20.08′ NDR (MHW) 385 353° 4.8 NM to fld. NOTAM FILE DRI. Unmonitored 0100-1300Z±. Rwy 36. LOC only. LOC unmonitored 0100-1300Z‡. ILS 111.1 I-DRI ASR DE RIDDER N30°49.90′ W93°20.40′ иптении RCO 122.2 (DE RIDDER RADIO) L-21B. 22E **DOWNTOWN** N32°32.39′ W93°44.48′ NOTAM FILE DTN. MEMPHIS (T) VORW 108.6 DTN at Shreveport Downtown. L-17E VOR unusable: 070°-100° beyond 10 NM below 7,000'. 246°-265° beyond 11 NM below 4.500' 180°-245° beyond 17 NM below 2,500'. 266°-280° beyond 23 NM below 2,500' DRISKILL MOUNTAIN N32°25.19′ W92°53.81′ MEMPHIS RCO 122.35 (DE RIDDER RADIO) L-17E DURALDE N30°33.59′ W92°26.88′ NOTAM FILE DRI. HOUSTON NDB (MHW) 263 ECY 164° 5.7 NM to Eunice H-7D, L-21B, 22E EAST CAMERON 278 (EHC) N28°25.73′ W92°52.68′ L-21B. GOMW AWNS-3 119 975 EAST CAMERON 47 (CMB) N29°26.43′ W92°58.75′ L-21B, 22E, GOMW AW0S-3 119.525 ELM GROVE N32°24.01′ W93°35.71′. NOTAM FILE DRI. MEMPHIS (L) VORTAC 111.2 EMG Chan 49 324° 7.0 NM to Barksdale AFB, 160/7E, HIWAS, H-61. L-17E TACAN unusable byd 30 NM blo 2,000'. **ESLER** N31°21.50′ W92°17.77′ NOTAM FILE ESF. HOUSTON RCO 122.55 (DE RIDDER RADIO) H-61, L-22E ESLER RGNL (See ALEXANDRIA)

NULSIIUH

L-21B. GOMC

L-21B

EUGENE ISLAND N28°15.00′ W91°47.00′

EUGENE ISLAND (EIR) N28°38.08' W91°29.35'

RCO 122.55 (DE RIDDER RADIO)

AWNS-3 119 475

EUNICE (4R7) 2 S UTC-6(-5DT) N30°27.98′ W92°25.43′
42 B S2 FUEL 100LL, JET A, MOGAS NOTAM FILE DRI
RWY 16-34: H5001X75 (ASPH) S-21 MIRL

RWY 16: REIL. PAPI(P2L)—GA 3.0° TCH 52'. Trees.

RWY 34: REIL. PAPI(P2L)—GA 3.0° TCH 50'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z‡, Sat and Sun on call. For fuel after hours call 337-457-6585. MIRL Rwy 16-34 and REIL Rwy 16 and Rwy 34 preset low ints dusk to dawn, to incr ints ACTIVATE—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

R LAFAYETTE APP/DEP CON 128.7 (1030-0530Z‡)

HOUSTON CENTER APP/DEP CON 126.35 (0530-1030Z±)

GCO 135.075 (LAFAYETTE APCH and DE RIDDER AFSS)

RADIO AIDS TO NAVIGATION: NOTAM FILE LFT.

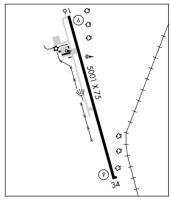
 LAFAYETTE (L) VORTACW 109.8
 LFT
 Chan 35
 N30°11.63′

 W91°59.55′
 303° 27.7
 NM to fld. 36/3E.
 HIWAS.

 DURALDE NDB (MHW) 263
 ECY
 N30°33.59′ W92°26.89′
 16

5.7 NM to fld. NOTAM FILE DRI.

HOUSTON H-7d, L-21b, 22e, gomc IAP



FALSE RIVER RGNL (See NEW ROADS)

# **FARMERVILLE**

UNION PARISH (F87) 4 SE UTC-6(-5DT) N32°43.50′ W92°20.23′

MEMPHIS

121 B **FUEL** 100LL NOTAM FILE DRI **RWY 16-34**: H2997X70 (ASPH) S-8 MIRL

RWY 16: SAVASI(V2L)-GA 5.5°TCH 31'. Thid dspicd 130'. Trees.

RWY 34: REIL. SAVASI(V2L)-GA 4.5°TCH 25'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z‡. Rwy 16-34 CLOSED to acft over 12,500 lbs. Rwy 16 SAVASI OTS indef. Rwy 34 SAVASI OTS indef. MIRL Rwy 16-34 preset low ints, to incr intst and ACTIVATE REIL Rwy 34—CTAF. NOTE: See Special Notices—Aerobatic Practice Area.

COMMUNICATIONS: CTAF 122.9

FLORENVILLE N30°24.94′ W89°49.20′. NOTAM FILE ASD.

NDB (MHW) 371 FNA 178° 4.2 NM to Slidell.

NEW ORLEANS L-21B, 22F, GOMC

FORT POLK (See POLK AAF)

FRANKLINTON (2R7) 3 SE UTC-6(-5DT) N30°49.17′ W90°06.75′

NEW ORLEANS L-21B. 22F

175 B NOTAM FILE DRI

RWY 13-31: H3000X75 (ASPH) S-20 MIRL

RWY 13: REIL, PAPI(P2L)—GA 3.0° TCH 50'. Trees.

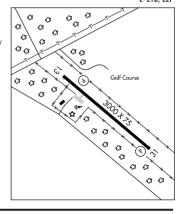
RWY 31: REIL, PAPI(P2L)—GA 3.0° TCH 50'. Trees.

AIRPORT REMARKS: Unattended. MIRL Rwy 13–31, REIL Rwy 13 and Rwy 31 preset low ints. to incr ints ACTIVATE—CTAF.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE GWO.

PICAYUNE (L) VORTAC 112.2 PCU Chan 59 N30°33.67′ W89°43.83′ 303° 25.1 NM to fld. 70/5E.



#### GALLIANO

SOUTH LAFOURCHE LEONARD MILLER JR. (GAO) 1E UTC-6(-5DT) N29°26.47′ W90°15.67′ NEW ORLEANS 1 B FUEL 100LL, JET A1+ NOTAM FILE DRI H-7E, L-21B, 22F, GOMC ΙΔΡ

**RWY 18-36:** H6502X100 (ASPH) S-60, D-75 MIRI RWY 18: REIL. PAPI(P2L)-GA 3.0° TCH 50'. Trees.

RWY 36: REIL. PAPI(P4L)-GA 3.0° TCH 50'.

AIRPORT REMARKS: Attended continuously. Self svc fuel avbl 24 hrs with credit card. PAEW on and invof arpt. REIL Rwy 18 OTS indef. REIL Rwv 36 OTS indef, MIRL Rwv 18-36 and REIL Rwv 18 and Rwv 36 preset low intensity dusk to dawn, to increase intensity ACTIVATE-CTAF.

WEATHER DATA SOURCES: AWOS-3 118.175 (985) 475-5178.

COMMUNICATIONS: CTAF/UNICOM 123.0

R NEW ORLEANS APP/DEP CON 123.85

GCO 135.075 (DE RIDDER FSS)

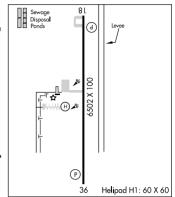
RADIO AIDS TO NAVIGATION: NOTAM FILE DRI.

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LEEVILLE (H) VORTAC 113.5 LEV Chan 82 N29°10.51'

331° 17.9 NM to fld. 02/2E. W90°06 24'

HELIPAD H1: H60X60 (CONC)



GATOR N31°01.70′ W93°11.09′ NOTAM FILE DRI NDB (MHW) 359 GUV 336° 1.1 to Polk AAF.

HOUSTON L-21B, 22E

#### GEORGE R CARR MEM AIR FLD (See BOGALUSA)

#### **GONZALES**

LOUISIANA RGNL (L38) 2 S UTC-6(-5DT) N30°10.36′ W90°56.44′

14 B S2 FUEL 100LL, JET A NOTAM FILE DRI RWY 17-35: H3998X99 (ASPH) S-30, D-60 MIRL

RWY 17: REIL. PAPI(P2L)-GA 3.0° TCH 40'. Trees.

RWY 35: REIL. PAPI(P2L)-GA 3.0° TCH 40'. Trees. AIRPORT REMARKS: Attended Mon-Sat 1400-2300Z‡. Other times call 225-647-4568. 100LL avbl self service with credit card. PAEW on arpt. MIRL Rwy 17-35 and REIL Rwy 17 and Rwy 35 preset low ints dusk to dawn, to incr ints ACTIVATE-CTAF.

COMMUNICATIONS: CTAF/UNICOM 123.0

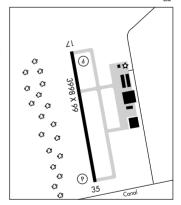
GCO 135.075 (BATON ROUGE App and DE RIDDER FSS)

(R) BATON ROUGE APP/DEP CON 126.5 (1100-0600Z‡) HOUSTON CENTER APP/DEP CON 126.35 (0600-1100Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE BTR.

BATON ROUGE (L) VORTACW 116.5 BTR Chan 112 N30°29.11' W91°17.64′ 129° 26.2 NM to fld. 20/6E.

NEW ORLEANS L-21B. 22F. GOMC ΙΔΡ



**GREEN CANYON 338** 

(GRY) N27°37.48′ W90°26.47′

AW0S-3 118.875

L-21C, GOMC

NOTAM FILE DRI

HAMMOND NORTHSHORE RGNL (HDC) 3 NE UTC-6(-5DT) N30°31.30′ W90°25.10′

NEW ORLEANS H-7D, L-21B, 22F, GOMC

ΙΔΡ

RWY 13-31: H6502X100 (ASPH-CONC) S-22, D-33 MIRI

47 B S4 **FUEL** 100LL, JET A TPA-1003(956) RWY 13: REIL. PAPI(P4L)-GA 3.30° TCH 50'. Trees.

RWY 31: REIL. PAPI(P4L)—GA 3.30° TCH 50'. Thid dspicd 690'.

RWY 18-36: H5001X150 (CONC) S-27, D-41 MIRL

RWY 18: MALSR. REIL. PAPI (P4L)-GA 3.0° TCH 52'.

RWY 36: REIL. PAPI (P4L)-GA 3.0° TCH 52'.

AIRPORT REMARKS: Attended Mon-Fri 1200-0200Z±. Sat-Sun

1400-0000Z‡. Self service fuel avbl 24 hrs with credit card on west ramp. Full syc aybl on southeast ramp. Birds, deer and coyotes on and invof arpt. Ultralight activity on and invof arpt. Transient parking and military and government acft serviced at Southeast apron at the FBO, Unmarked N-S Twv adjacent Rwv 18-36 clsd to acft over 80.000 lbs. Rwv 18-36 all safety areas NSTD. Electronic equipment, open ditches and erosion within safety area AER 36. MIRL Rwy 13-31 and Rwy 18-36, REIL Rwy 13, Rwy 31 and Rwy 36 preset low ints dusk-dawn, to incr ints and ACTIVATE MALSR Rwy 18-CTAF.

WEATHER DATA SOURCES: AWOS-3 118.325 (985) 542-3433.

COMMUNICATIONS: CTAF/UNICOM 122.7

R NEW ORLEANS APP/DEP CON 119.3 125.5 RADIO AIDS TO NAVIGATION: NOTAM FILE MSY.

RESERVE (L) VORW/DME 110.8 RQR Chan 45 N30°05.25' W90°35.32' 017° 27.5 NM to fld. 5/2E.

(T) VORW 109.6 HMU N30°31.17′ W90°25.05′ at fld. NOTAM FILE DRI.

ANGER NDB (LOM) 212 HP N30°36.38' W90°25.27' 174° 5.1 NM to fld. Unmonitored.

ILS 111.5 I-HPF Rwy 18. LOM ANGER NDB. ILS unmonitored weekends, unmonitored Mon-Fri 2300-1400Z±.

#### HARRY P. WILLIAMS MEM (See PATTERSON)

HART (See MANY)

HARVEY N29°51.01′ W90°00.18′ NOTAM FILE NEW.

**NEW ORLEANS** 

(H) VORTACW 114.1 HRV Chan 88 (Alvin Callender Fld.), 0/2E.

220° 1.8NM to New Orleans NAS JRB

H-7E, 8F, L-21B, 22F, GOMC

VORTAC unusable:

360°-235° byd 30 NM blo 2,000'

236°-246° byd 20 NM blo 2,000′

247°-359° byd 30 NM blo 2,000′

**HODGE** N32°12.08′ W92°43.56′. NOTAM FILE DRI.

NDB (MHW) 256 JBL at Jonesboro. Unmonitored. Unusable 350°-005° byd 10 NM. MEMPHIS L-17E MEMPHIS

1-17F

HOMER MUNI (5F4) 3 E UTC-6(-5DT) N32°47.31′ W93°00.22′

244 B NOTAM FILE DRI

RWY 12-30: H3199X60 (ASPH) S-12 MIRL 0.5% up NW

RWY 30. Trees RWY 12. Trees

AIRPORT REMARKS: Unattended. Rwy 12-30 MIRL OTS indef. Rotating bcn OTS indef. Windsock Igt OTS indef. ACTIVATE MIRL Rwy 12-30-122 8

**COMMUNICATIONS: CTAF 122.9** 

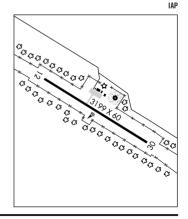
(R) SHREVEPORT APP/DEP CON 118.6 (1200-0600Z‡) 121.4

(0600-12007+)

RADIO AIDS TO NAVIGATION: NOTAM FILE SHV.

BELCHER (H) VORTACW 117.4 EIC Chan 121 N32°46.28' 081° 40.8 NM to fld. 190/7E. W93°48.60'

NDB (MHW) 212 HMQ N32°47.41′ W93°00.04′ at fld. NOTAM FILE DRI



**HOUMA** N29°20.23′ W90°38.71′ **RCO** 122.45 (DE RIDDER RADIO)

HOUSTON

**HOUMA-TERREBONNE** (HUM) 3 SE UTC-6(-5DT) N29°33.99′ W90°39.63′

10 B S4 FUEL 100LL, JET A 0X 1, 2, 3, 4 TPA—1010(1000) NOTAM FILE HUM RWY 18-36: H6508X150 (CONC-GRVD) S-50, D-70, DT-137 HIRL

NEW ORLEANS H-7D, L-21B, 22F IAP. AD

RWY 18: MALSR. PAPI(P2L). Trees.

RWY 36: REIL. PAPI(P2L). Trees.

RWY 12-30: H4999X200 (CONC) S-50, D-70, DT-137 HIRL RWY 12: REIL. PAPI(P2L). Trees.

RWI 12: REIL. PAPI(P2L). Tiees.

RWY 30: REIL. PAPI(P2L). Trees.

AIRPORT REMARKS: Attended 1200–0100Z‡. Birds on and invof arpt. Numerous birds 500'AGL and blo 2.8 NM south southwest AER 36, avoidance advised. Extensive helicopter ops south thru west of arpt. Rwy 12–30 surface skid resistance fair when wet. Rwy 36 PAPI and REIL OTS indef. ACTIVATE HIRL Rwy 12–30 and Rwy 18–36 and MALSR Rwy 18 and REIL Rwy 12, Rwy 30 and Rwy 36—CTAF.

WEATHER DATA SOURCES: AWOS-3 120.25 (985) 876-4055. LAWRS. COMMUNICATIONS: CTAF 125.3 ATIS 120.25 UNICOM 122.95

R NEW ORLEANS APP/DEP CON 118.9

TOWER 125.3 (1200-0100Z‡) GND CON 121.8

AIRSPACE: CLASS D svc 1200-0100Z $\ddagger$  other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE DRI.

TIBBY (L) VORTAC 112.0 TBD Chan 57 N29°39.86′

W90°49.75′ 122° 10.6 NM to fld. 10/2E.

NDB (LOM) 219 HU N29°39.80′ W90°39.58′ 178° 5.8 NM to fld. LOM unmonitored.

ILS 108.5 I-HUM Rwy 18. LOM HOUMA NDB. LOM unmonitored.

IDA'S HELIPORT (L87) O N UTC-6(-5DT) N33°00.26′ W93°53.59′

MEMPHIS

286 NOTAM FILE DRI HELIPAD H1: H40X40 (CONC)

AW0S-3 118.125

HELIPORT REMARKS: Attended continuously. Helipad H1 perimeter lgts. Helipad H1 100' water twr 300' E and 149' radio twr 500' S of pad. For perimeter lgts call 318–284–3273. Helipad H1 apch-departure 30°–210°. COMMUNICATIONS: CTAF 122.9

INDEPENDENCE (IPN N28°05.10′ W87°59.15′

L-21C. GOMC

**IFANFRETTE** 

**LE MAIRE MEM** (2R1) 1 S UTC-6(-5DT) N29°53.95′ W91°39.96′

HOUSTON L-21B. 22F

14 B FUEL 100LL NOTAM FILE DRI

RWY 04-22: H3000X75 (ASPH) S-6 MIRL RWY 04: Trees. RWY 22: Thid dspicd 603'. Trees.

AIRPORT REMARKS: Unattended. Fuel self svc with credit card. MIRL Rwy 04–22 preset low ints dusk to dawn, to incr ints ACTIVATE–CTAF.

**COMMUNICATIONS: CTAF 122.9** 

RADIO AIDS TO NAVIGATION: NOTAM FILE LFT.

LAFAYETTE (L) VORTACW 109.8 LFT Chan 35 N30°11.63′ W91°59.55′ 133° 24.5 NM to fld. 36/3E. HIWAS

JENA (1R1) 2 SW UTC-6(-5DT) N31°40.04′ W92°09.45′ 212 B NOTAM FILE DRI HOUSTON L-22E

RWY 17-35: H3805X75 (ASPH) S-12 MIRL

RWY 17: SAVASI(S2L)—GA 4.0° TCH 21'. Trees. RWY 35: REIL. SAVASI(S2L)—GA 4.6° TCH 26'. Trees.

AIRPORT REMARKS: Unattended. Rwy 35 REIL OTS indef. Rwy 17 SAVASI OTS indef. Rwy 35 SAVASI OTS indef.

Rotating bcn OTS indef. ACTIVATE MIRL Rwy 17-35 and REIL Rwy 35-122.8.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE AEX.

ALEXANDRIA (H) VORTACW 116.1 AEX Chan 108 N31°15.40′ W92°30.06′ 033° 30.2 NM to fld. 80/3E. HIWAS.

SC, 17 DEC 2009 to 11 FEB 2010

JENNINGS (3R7) 1 NW UTC-6(-5DT) N30°14.56′ W92°40.41′

23 B **FUEL** 100LL, JET A NOTAM FILE DRI

**RWY 08-26**: H5002X75 (ASPH) S-12 MIRL

RWY 08: REIL. PAPI(P2L)—GA 3.0° TCH 50'. Trees.

RWY 26: REIL. PAPI(P2L)—GA 3.0° TCH 50'. Pole. Rgt tfc.

RWY 13-31: H3601X75 (ASPH) S-12 MIRL

RWY 13: REIL. PAPI(P2L)-GA 3.0° TCH 50'. Rgt tfc.

RWY 31: REIL. PAPI(P2L)—GA 3.0° TCH 50'. Thid dspicd 588'.

RWY 17-35: 1977X150 (TURF)

RWY 17: Pole. Rgt tfc.

RWY 35: P-line.

AIRPORT REMARKS: Attended Mon-Fri 1200–2200Z‡. Self svc fuel avbl after hrs with credit card. Ultralight activity invof arpt. Numerous agricultural acft invof arpt. Rwy 17–35 and thids outlined with orange cones. 20' unlgtd tower 150' from approach end Rwy 35. Rwy 13–31—A few small cracks in rwy. MIRL Rwy 08–26 and Rwy 13–31, REIL Rwy 8, Rwy 26, Rwy 13 and Rwy 31 preset low ints dusk to dawn, to increase ints ACTIVATE. NOTE: See Special Notices—Aerobatic Practice Area.

R LAKE CHARLES APP/DEP CON 119.8 (1200-0400Z‡)

R HOUSTON CENTER APP/DEP CON 124.7 (0400-1200Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE LCH.

LAKE CHARLES (H) VORTACW 113.4 LCH Chan 81 N30°08.49′ W93°06.33′ 068° 23.3 NM to fld. 20/7E.

JOHN H HOOKS JR MEM (See RAYVILLE)

COMMUNICATIONS: CTAF/UNICOM 122.8

JONESBORO (F88) 3 S UTC-6(-5DT) N32°12.12′ W92°43.98′

256 B NOTAM FILE DRI

RWY 17-35: H3203X75 (ASPH) S-28 MIRL

RWY 17: REIL. SAVASI(S2L)-GA 3.5° TCH 20'.

RWY 35: SAVASI(S2L)-GA 3.5° TCH 20'.

AIRPORT REMARKS: Unattended. Deer and wildlife on and invof arpt. Lighted wind tee midfield. Rwy 35 SAVASI OTS indef. MIRL Rwy 17–35 preset low ints, to increase ints and ACTIVATE REIL Rwy 17—122.8.

COMMUNICATIONS: CTAF 122.9

R MONROE APP/DEP CON 126.9 (1200-0400Z‡)

R FORT WORTH CENTER APP/DEP CON 126.325 (0400-1200Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE MLU.

MONROE (L) VORTACW 117.2 MLU Chan 119 N32°31.01′ W92°02.16′ 239° 40.1 NM to fld. 80/3E. HIWAS.

W92\*02.16 239\* 40.1 NM to fid. 80/3E. HIWNS.

HODGE NDB (MHW) 256 JBL N32\*12.08' W92\*43.56' at fil.

NOTAM FILE DRI. Unmonitored. Unusable 350°-005° byd 10

NM

JONESVILLE (L32) 0 W UTC-6(-5DT) N31°37.22′ W91°50.06′

HOUSTON

MEMPHIS

I-17F

56 B **FUEL** 100LL NOTAM FILE DRI **RWY 06-24**: H3000X75 (ASPH) S-16 MIRL

RWY 06: SAVASI(S2L)—GA 4.0° TCH 20'. Trees. RWY 24: SAVASI(S2L)—GA 4.0° TCH 20'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1400-2200Z‡. Rwy 24 SAVASI OTS indef. Rwy 06 SAVASI OTS indef. MIRL Rwy 06-24 preset low ints dusk to dawn, to incr ints ACTIVATE—122.8.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE AEX.

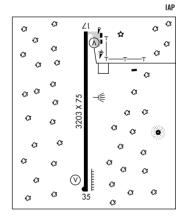
ALEXANDRIA (H) VORTACW 116.1 AEX Chan 108 N31°15.40′ W92°30.06′ 054° 40.5 NM to fld.

80/3E. HIWAS

Rwy 17-35: 1977 X 150

HOUSTON

H-7D, L-21B, 22E, GOMW



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KEITHVILLE
     BLUEBIRD HILL (5F5) 2 NE UTC-6(-5DT) N32°20.68′ W93°47.99′
                                                                                                       MEMPHIS
       180 B S2 NOTAM FILE DRI
       RWY 18-36: 3000X40 (ASPH-TURF)
                                        LIRL
                                            RWY 36: Thid dspicd 850'. Trees.
         RWY 18: Thid dspicd 430'. Trees.
       AIRPORT REMARKS: Attended continuously. For LIRL Rwy 18-36 call 318-925-2302. First 430' Rwy 18 paved. Rwy
         18-36 very unlevel grade full length; rwy ends stop at 50' trees. Rwy 18-36 dsplcd thid marked with one orange
         cone on each side. For rotating bcn call 318-925-2302.
       COMMUNICATIONS: CTAF 122.9
    KELLY (See OAK GROVE)
     KEYLI N30°11.58′ W93°15.79′ NOTAM FILE LCH.
                                                                                                       иптении
       NDB (LOM) 353 LC 150° 4.5 NM to Lake Charles Rgnl. Unmonitored when twr closed.
    KIBS AIR PARK
                      (See BRISTOL)
     KINTE N30°01.51′ W90°23.99′
                                   NOTAM FILE MSY.
                                                                                                    NEW ORLEANS
                             102° 7.6 NM to Louis Armstrong New Orleans Intl.
                                                                                            H-7D. L-21B. 22F. GOMC
       NDR (HW/LOM) 338 MS
    LAFAYETTE RGNL (LFT) 2 SE UTC-6(-5DT) N30°12.32′ W91°59.26′
                                                                                                       иптанин
       42 B S4 FUEL 100LL, JET A OX 1, 4 Class I, ARFF Index B NOTAM FILE LFT
                                                                                            H-7D, L-21B, 22E, GOMC
       RWY 04R-22L: H7651X150 (ASPH-GRVD) S-140, D-170, DT-290
                                                                      HIRL
                                                                                                         IAP AD
         RWY 04R: REIL. PAPI(P4L)-GA 3.0° TCH 50'. Pole. Rgt tfc.
                                                                                                     O.C.
         RWY 22L: MALSR. PAPI(P4L)-GA 3.0° TCH 53'. Trees.
                                                                                                      'n
       RWY 11-29: H5400X148 (ASPH-GRVD) S-85, D-110, DT-175
         RWY 11: REIL. PAPI(P4L)-GA 3.0° TCH 35'. Trees. Rgt tfc.
         RWY 29: REIL. PAPI(P4L)-GA 3.0° TCH 35'. Tree.
       RWY 04L-22R: H4099X75 (ASPH) S-25, D-32 MIRL
                                                                                                   €3
         RWY 04L: REIL. PAPI(P2L)-GA 3.0° TCH 25'. Tree.
         RWY 22R: REIL, PAPI(P2L)-GA 3.0° TCH 25', Tree, Rgt tfc.
       RUNWAY DECLARED DISTANCE INFORMATION
         RWY 04L: TORA-4099 TODA-4099 ASDA-4099 LDA-4099
         RWY 04R:
                  TORA-7651 TODA-7651 ASDA-7651 LDA-7651
                   TORA-5400 TODA-5400 ASDA-5400 LDA-5400
         RWY 11:
                  TORA-7651 TODA-7651 ASDA-7651 LDA-7651
         RWY 221 ·
         RWY 22R:
                  TORA-4099 TODA-4099 ASDA-4099 LDA-4099
                                                                         €3
                   TORA-5400 TODA-5400 ASDA-5400 LDA-5400
       AIRPORT REMARKS: Attended continuously. Numerous birds on and
                                                                           a
         invof arpt. PPR for unscheduled air carrier ops with more than 30
         passenger seats call arpt manager 337-266-4400. Rwy
         04L-22R not avbl for air carrier ops with more than 30 passenger seats. Ctc ground control prior to push back
         from terminal. 155' oil rig 1 NM southeast of arpt. Rwy 22L runway visual range touchdown avbl. Twy B between
         Twy C and Twy D clsd to acft with wingspan over 80'. Twy F south of Twy B clsd to single wheel acft over 25,000
         lbs and dual wheel acft over 32,000 lbs. Twy F south of Twy B reduces to 40' wide. When twr clsd ACTIVATE
         MALSR Rwy 22L-CTAF, MIRL Rwy 04L-22R not avbl.
       WEATHER DATA SOURCES: ASOS (337) 237-8153. HIWAS 109.8 LFT.
       COMMUNICATIONS: CTAF 118 5
                                 ATIS 134.05 UNICOM 122.95
         RCO 122.35 (DE RIDDER RADIO)
      R APP/DEP CON 121.1 (020°-210°) 128.7 (211°-019°) (1130-0430Z‡)
         HOUSTON CENTER APP/DEP CON 126.35 (0430-1130Z‡)
         TOWER 118.5 (1130-0430Z‡)
                                     GND CON 121.8 CLNC DEL 125.55
       AIRSPACE: CLASS C svc 1130-0430Z± other times CLASS E.
       RADIO AIDS TO NAVIGATION: NOTAM FILE LFT.
         (L) VORTACW 109.8 LFT Chan 35 N30°11.63′ W91°59.55′ at fld. 36/3E. HIWAS.
         LAFFS NDB (LOM) 375 LF N30°17.36′ W91°54.48′ 216° 6.5 NM to fld.
         ILS/DME 109.5 I-LFT Chan 32 Rwy 22L. Class IE. LOM LAFFS NDB.
                       I-TYN Chan 46 Rwy 04R. Class IE.
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HELIPAD H1: H50X50 (ASPH) LDIN

ILS/DME 110.9 I-TY ASR (1130-0430Z‡)

**HELIPORT REMARKS:** Rwy H1 circular pad. Helipad H1 perimeter lgts. Heliport ops to/from helipad between Twys B and F and the terminal ramp, avoid overflight of the terminal and other buildings in the 270°–020° quadrant from the helipad. Lead-in lgts two ingress paths. Helicopter parking pads avbl.

LAFFS N30°17.36′ W91°54.48′ NOTAM FILE LFT. NDB (LOM) 375 LF 216° 6.5 NM to Lafayette Rgnl.

NOTZUNH L-21B, 22E

### LAKE CHARLES

**CHENNAULT INTL** (CWF) 4 E UTC-6(-5DT) N30°12.65′ W93°08.59′

17 B FUEL 100LL, JET A+ OX 4 TPA—1500(1483) ARFF Index—See Remarks NOTAM FILE CWF

H-7D, L-21B, 22E, GOMW

HOUSTON IAP. AD

RWY 15-33: H10701X200 (CONC) S-75, D-200, DT-320. DDT-750 HIRL

RWY 15: MALSR. PAPI(P4L)-GA 3.0° TCH 53'.

RWY 33: REIL. PAPI(P4L)—GA 3.0° TCH 53'. Tree. Rgt tfc.

#### RUNWAY DECLARED DISTANCE INFORMATION

RWY 15: TORA-10701 TODA-10701 ASDA-10701 LDA-10701 RWY 33: TORA-10701 TODA-10701 ASDA-10701 LDA-10701

AIRPORT REMARKS: Attended Mon-Fri 1230-0230Z‡ Sat-Sun

1300-0200Z±. After hrs call 337-433-7766. For fuel call 337-436-4877. Birds on and invof arpt. Occasional heavy jet acft on and invof arpt. Class IV, ARFF Index A. 6 hr PPR for air carrier ops with more than 30 passenger seats, call arpt manager 337-491-9961. Index E available with 24 hours notice, call arpt manager 337-491-9961. When twr clsd ACTIVATE HIRL Rwy 15-33, MALSR Rwy 15 and REIL Rwy 33-CTAF.

WEATHER DATA SOURCES: AWOS-3 120.0 (337) 436-3452. LAWRS. COMMUNICATIONS: CTAF 124.2 ATIS 120.0 UNICOM 122.95

R LAKE CHARLES APP/DEP CON 119.8 (1200-0400Z‡)

R HOUSTON CENTER APP/DEP CON 124.7 (0400-1200Z‡)

TOWER 124.2 (1200-0400Z‡) GND CON 121.65

AIRSPACE: CLASS D svc 1200-0400Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE LCH.

LAKE CHARLES (H) VORTACW 113.4 LCH Chan 81 N30°08.49′ W93°06.33′ 328° 4.6 NM to fld. 20/7E.

MOSSY NDB (LOM) 418 CW N30°18.40′ W93°11.77′ 150° 6.4 NM to fld.

ILS 110.7 I-CWF Rwy 15. Class IE. LOM MOSSY NDB. ILS unmonitored when twr clsd. ASR (1200-0400Z‡)

I DUISIANA 84

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LAKE CHARLES RGNL (LCH) 5 S UTC-6(-5DT) N30°07.57′ W93°13.41′
                                                                                                  иптенни
  15 B S4 FUEL 100LL, JET A+ LRA ARFF Index See remarks NOTAM FILE LCH
                                                                                      H-7D, L-21B, 22E, GOMW
  RWY 15-33: H6500X150 (CONC-GRVD) S-100, D-145, DT-260
                                                             HIRI
                                                                                                   ΙΔΡ ΔΠ
    RWY 15: MALSR. PAPI(P4L)-GA 3.0° TCH 54'. Pole. Rgt tfc.
    RWY 33: ODALS. VASI(V4L)-GA 3.0° TCH 50'.
  RWY 05-23: H5200X100 (ASPH) S-70, D-90, DT-140
                                                      MIRI
    RWY 05: REIL. PAPI(P4L)-GA 3.0° TCH 48'. Tree.
    RWY 23: REIL. VASI(V4L)-GA 3.0° TCH 47'. Rgt tfc.
  RUNWAY DECLARED DISTANCE INFORMATION
    RWY 05-
             TORA-5200 TODA-5200 ASDA-5200
                                                      LDA-5200
                          TODA-6500 ASDA-6500
    RWY 15:
             TORA-6500
                                                     LDA-6500
    RWY 23-
             TORA-5200
                          TODA-5200
                                       ASDA-5200
                                                     LDA-5200
    RWY 33-
             TORA-6500
                          TODA-6500 ASDA-6500
                                                     LDA-6500
  AIRPORT REMARKS: Attended 1100-0430Z‡. Birds on and in vicinity of
    arpt. Use extreme care construction on terminal ramp. PPR 8
    hours for unscheduled air carrier ops. Class I, ARFF Index B svc
    available on request Mon-Fri 1400-2230Z‡ except holidays call
    arpt manager 337-477-6051 ext O. ARFF Index A avbl during air
    carrier ops. Control twr blind spot on Taxiway J. Rwy 33 ODALS
    OTS indef. When twr clsd ACTIVATE MALSR Rwy 15, ODALS
    Rwv 33 and HIRL Rwv 15-33 and VASI Rwv 33-CTAF, MIRL Rwv
                                                                                       €3
    05-23 and VASI 23 off when twr closed. Rwy 15-33 south 900'
    grooved. Flight Notification Service (ADCUS) available.
  WEATHER DATA SOURCES: ASOS (337) 477-3371. LAWRS.
  COMMUNICATIONS: CTAF 120.7
                            ATIS 118.75 UNICOM 122.95
    RCO 122.3 (DE RIDDER RADIO)
 R APP/DEP CON 119.35 (West) 119.8 (East) 119.75 (Offshore helicopter opr) (1200-0400Z‡) 119.75 OTS indef.
 R HOUSTON CENTER APP/DEP CON 124.7 (0400-1200Z‡)
    TOWER 120.7 (1200-0400Z±)
                                 GND CON 121.8 CLNC DEL 126.25
  AIRSPACE: CLASS D svc 1200-0400Z tother times CLASS E.
    TRSA svc ctc APP CON within 30 NM.
  RADIO AIDS TO NAVIGATION: NOTAM FILE LCH.
    (H) VORTACW 113.4 LCH Chan 81 N30°08.49′ W93°06.33′ 254° 6.2 NM to fld. 20/7E.
    KEYLI NDB (LOM) 353 LC N30°11.58′ W93°15.79′ 150° 4.5 NM to fld. Unmonitored when twr closed.
    ILS/DME 109.1 I-LCH Chan 28 Rwv 15. LOM KEYLI NDB, ILS unmonitored when twr closed.
    ASR (1200-0400Z±)
LAKEFRONT (See NEW ORLEANS)
LAKE PROVIDENCE N32°49.84′ W91°11.41′
                                            NOTAM FILE DRI.
                                                                                                  MEMPHIS
  NDB (MHW) 278 BLE
                       at Byerley. OTS indef. SHUTDOWN.
                                                                                                    L-18F
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#### LAKE PROVIDENCE

BYERLEY (ØM8) 2 N UTC-6(-5DT) N32°49.55′ W91°11.26′ 106 B NOTAM FILE DRI

MEMPHIS L-18F IΛP

RWY 17-35: H3196X75 (ASPH) S-4 MIRI

RWY 17: REIL. Thid dspicd 175'. Road.

RWY 35: SAVASI(S2L)—GA 3.6° TCH 18'. Thid dspicd 530'. Tree.

AIRPORT REMARKS: Unattended. Rwy 17 dsplcd thid markings NSTD, no arrows or chevrons. Rwy 35 dsplcd thid markings incomplete—no arrows/chevrons. No hold short line east side of Rwy 35. Dsplcd thld lgts OTS indef. Rwy 17-35 MIRL OTS indef. REIL Rwy 17 OTS indef. Rotating bcn OTS indef.

**COMMUNICATIONS: CTAF 122.9** 

R MEMPHIS CENTER APP/DEP CON 132.5

RADIO AIDS TO NAVIGATION: NOTAM FILE GLH.

GREENVILLE (L) VOR/DME 110.2 GLH Chan 39 N33°31.41′ W90°58.98′ 190° 43.0 NM to fld. 130/4E. LAKE PROVIDENCE NDB (MHW) 278 BLE N32°49.84′ W91°11.41′ at fld. NOTAM FILE DRI. OTS indef. SHUTDOWN.

**LEESVILLE** (L39) 4 W UTC-6(-5DT) N31°10.09′ W93°20.55′

282 B FUEL 100LL, JET A NOTAM FILE DRI

RWY 18-36: H3807X75 (ASPH) S-12 MIRL 0.4% up N

RWY 18: REIL. PAPI(P2L)—GA 3.0° TCH 50'. Tree.

RWY 36: REIL. PAPI(P2L)—GA 3.0° TCH 50'. Tree.

AIRPORT REMARKS: Attended 1400–2200Z‡. 100LL self service with credit card. Wildlife on and invof arpt. 15 ft terrain drop E side of Rwy 18–36. Rwy 18–36 W side 10–15 ft rise 120 ft off centerline full length. MIRL Rwy 18–36, REIL Rwy 18 and Rwy 36 preset low ints dusk to dawn, to incr ints ACTIVATE—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

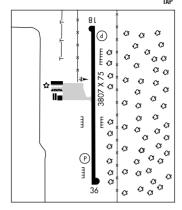
R POLK APP/DEP CON 123.7

RADIO AIDS TO NAVIGATION: NOTAM FILE AEX.

ALEXANDRIA (H) VORTACW 116.1 AEX Chan 108 N31°15.40′ W92°30.06′ 260° 43.6 NM to fld. 80/3E. HIWAS.

NDB (MHW) 247 VED N31°06.14′W93°20.52′ 356° 3.9 NM to fld. NOTAM FILE DRI. Monitored dalgt hrs only.

HOUSTON L-21B, 22E



LEEVILLE N29°10.51′ W90°06.24′ NOTAM FILE DRI.

(H) VORTAC 113.5 LEV Chan 82 331° 17.9 NM to South LaFourche Leonard Miller Jr. 02/2E.

RCO 122.1R 113.5T (DE RIDDER RADIO)

LE GROS MEM (See CROWLEY)

LE MAIRE MEM (See JEANERETTE)

LOUIS ARMSTRONG NEW ORLEANS INTL (See NEW ORLEANS)

LOUISIANA RGNL (See GONZALES)

MAGNOLIA (GBK) N27°12.23′ W92°12.15′

AWOS-3 118.825

L-21B, GOMC, GOMW

MEMPHIS

**NEW ORLEANS** 

H-7E. 8F. L-21B. 22E. GOMC

**MANSFIELD** 

CE 'RUSTY' WILLIAMS (3F3) 3 NW UTC-6(-5DT) N32°04.41' W93°45.93'

324 B S4 **FUEL** 100LL, JET A NOTAM FILE DRI

RWY 18-36: H4500X100 (ASPH) S-12 MIRL

**RWY 18:** REIL. PAPI(P2L)—GA 3.0° TCH 50′. Trees. **RWY 36:** REIL. PAPI(P2L)—GA 3.5° TCH 58′. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z‡, Sat-Sun irregularly. Parachute Jumping. Rwy 18-36 numerous cracks in rwy, surface rough. MIRL Rwy 18-36, REIL Rwy 18 and Rwy 36 preset low ints dusk to dawn, to incr ints ACTIVATE—CTAF.

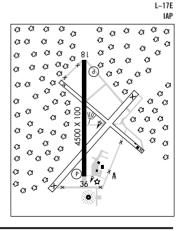
COMMUNICATIONS: CTAF/UNICOM 122.8

R SHREVEPORT APP/DEP CON 119.9 (1200-0600Z‡) 121.4 (0600-1200Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE SHV.

**BELCHER (H) VORTACW** 117.4 EIC Chan 121 N32°46.28′ W93°48.60′ 170° 41.9 NM to fld. 190/7E.

MANSFIELD NDB (MHW) 414 MSD N32°03.86′ W93°45.87′ at fld. NOTAM FILE DRI. Unmonitored.



MANSFIELD N32°03.86′ W93°45.87′ NOTAM FILE DRI.

NDB (MHW) 414 MSD at CE 'Rusty' Williams. Unmonitored.

MEMPHIS L-17E

MANY

HART (3R4) 2 SW UTC-6(-5DT) N31°32.67′ W93°29.16′

иптанин L-22E

319 B FUEL 100LL NOTAM FILE DRI

RWY 12-30: H4402X75 (ASPH) S-6 MIRL 0.3% up NW

ΙΔΡ

RWY 12: REIL. PAPI(P2L)—GA 3.0° TCH 50'. Trees. RWY 30: REIL. PAPI(P2L)-GA 3.0° TCH 50'. Trees.

RWY 01-19: 1822X75 (TURF)

RWY 01: Trees. RWY 19: Trees.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z‡. Self svc fuel avbl after hrs with credit card. Rwy 01-19 CLOSED indef, MIRL Rwy 12-30, REIL Rwy 12 and Rwy 30 preset low ints dusk to dawn to incr ints ACTIVATE—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

(R) POLK APP/DEP CON 123.7

GCO 135.075 (POLK APCH and DE RIDDER FSS)

RADIO AIDS TO NAVIGATION: NOTAM FILE AEX.

AEX Chan 108 N31°15.40′ W92°30.06′ ALEXANDRIA (H) VORTACW 116.1 286° 53 4 NM to fld

80/3E. **2AWIH** 

MANY NDB (MHW) 272 MMY N31°34.28′ W93°32.49′ 115° 3.3 NM to fld. NOTAM FILE DRI. SHUTDOWN.

MANY N31°34.28′ W93°32.49′ NOTAM FILE DRI. NDB (MHW) 272 MMY 115° 3.3 NM to Hart. SHUTDOWN HOUSTON I-17R

MANY N31°33.81' W93°26.74' RCO 122.15 (DE RIDDER RADIO) иптении L-22E

MARKSVILLE MUNI (MKV) 1 S UTC-6(-5DT) N31°05.68' W92°04.14'

HOUSTON L-21B. 22E

IAP

79 B FUEL 100LL NOTAM FILE DRI

RWY 04-22: H3799X75 (ASPH) S-19 MIRI

RWY 04: SAVASI(S2L)-GA 3.5° TCH 18'. Trees.

RWY 22: SAVASI(S2L)-GA 3.5° TCH 18'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2000Z±. Fuel avbl 24 hrs with credit card. Rwy 04-22 CLOSED to acft 12.500 lbs and over. North ramp clsd to all traffic and parking indef. Rwy 04 SAVASI OTS indef, Rwy 22 SAVASI OTS indef, MIRL Rwy 04-22 preset low ints, to increase ints ACTIVATE-122.8.

COMMUNICATIONS: CTAF 122.9

(R) POLK APP/DEP CON 125.4

NOTAM FILE DRI.

RADIO AIDS TO NAVIGATION: NOTAM FILE AEX.

ALEXANDRIA (H) VORTACW 116.1 AEX Chan 108 N31°15.40' W92°30 04' 110° 24.3 NM to fld. 80/3E. HIWAS. NDB (MHW) 347 MKV N31°05.68' W92°04.36' at fld.

MATTERHORN (MMG) N28°44.53′ W88°49.53′

AWOS-3 118.475

L-21C, GOMC

MELVILLE

PETE ANTIE MUNI HELIPORT (7L9) O N UTC-6(-5DT) N30°41.66′ W91°44.78′

HOUSTON COPTER

30 NOTAM FILE DRI HELIPAD H1: H40X30 (CONC)

HELIPORT REMARKS: Unattended. For perimeter lgts call 337-623-4226.

**COMMUNICATIONS: CTAF 122.9** 

278 B **FUEL** 100LL, JET A+ TPA—1300 (1022) NOTAM FILE DRI **RWY 01-19**: H5004X75 (ASPH) S-30, D-45 MIRL 0.3% up S

**RWY 01**: REIL. PAPI(P2L)—GA 3.25° TCH 54′. Trees.

RWY 19: REIL. PAPI(P2L)—GA 3.15° TCH 54'. Trees.

AIRPORT REMARKS: Attended 1300-0000Z‡. MIRL Rwy 01-19, REIL Rwy 01 and Rwy 19, preset low ints dusk to dawn, to incr ints ACTIVATE—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

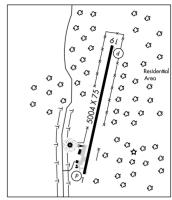
R SHREVEPORT APP/DEP CON 118.6 (1200-0600Z‡) 121.4 (0600-1200Z‡)

GCO 135.075 (SHREVEPORT APCH and DE RIDDER FSS)

RADIO AIDS TO NAVIGATION: NOTAM FILE SHV.

**BELCHER (H) VORTACW** 117.4 EIC Chan 121 N32°46.28′ W93°48.60′ 099° 27.0 NM to fld. 190/7E.

NDB (MHW) 201 MNE N32°38.45′ W93°18.13′ at fld. NOTAM FILE DRI. Unmonitored.



MISSISSIPPI CANYON (MDJ) N28°38.55′ W89°47.65′ AW0S-3 119.325

L-21B, GOMC

 MOLLY RIDGE
 N32°24.55′ W91°46.68′
 NOTAM FILE DRI.

 NDB (MHW) 338
 MRK
 002° 4.6 NM to John H Hooks Jr Mem.

MEMPHIS L-18F

MEMPHIS

ΙΔΡ

H-6I, L-17E

MONROE RGNL (MLU) 3 E UTC-6(-5DT) N32°30.65′ W92°02.26′ MEMPHIS

79 B S4 FUEL 100LL, JET A 0X 1 Class I, ARFF Index B NOTAM FILE MLU

RWY 04-22: H7507X150 (ASPH) S-75, D-170, DT-290 HIRL

RWY 18-36: H5001X150 (ASPH) S-60, D-75, DT-130

RWY 18-76: N5001X150 (ASPH) S-60, D-75, DT-130

RWY 14-32: H5000X150 (ASPH) S-75, D-170, DT-290 MIRI RWY 14: REIL. PAPI(P4L)—GA 3.0° TCH 63'. Thid dspicd 301'. Trees

PHILL OF BEIL BARRES

RWY 32: REIL. PAPI(P4L)—GA 3.0° TCH 50'.

#### RUNWAY DECLARED DISTANCE INFORMATION

RWY N4-TORA-7507 TODA-7507 ASDA-7507 LDA-7507 RWY 14. TORA-5000 TODA-5000 ASDA-5000 LDA-4699 RWY 18: TORA-5001 TODA-5001 ASDA-5001 LDA-5001 RWY 22: TORA-7507 TODA-7507 ASDA-7507 LDA-7507 RWY 32: TORA-5000 TODA-5000 ASDA-5000 LDA-5000 RWY 36: TORA-5001 TODA-5001 ASDA-5001 LDA-5001 AIRPORT REMARKS: Attended continuously. Rwy 18-36, Twys J, E,

between Rwy 18–36 and Rwy 04–22, and Twy A from Rwy 14 to Twy C not avbl for air carrier ops with over 9 passenger seats. Rwy 04 runway visual range touchdown avbl. SW 6000′ grvd ASPH.

Rwy 14–32 surface block cracking with grass over 90% of rwy surface.

Taxiway A clsd to acft over 12,500 lbs E of Rwy 18 to Taxiway C. Taxiway E clsd to aircraft with wing span over 90' East of Rwy 04–22. When twr closed ACTIVATE HIRL Rwy 04–22 MIRL Rwy 14–32, Twy Igts, MALSR Rwy 04 and Rwy 22—CTAF, PAPI Rwy 04, Rwy 22, Rwy 14 and Rwy 32 operate continuously.

WEATHER DATA SOURCES: ASOS (318) 361-0684. HIWAS 117.2 MLU. LLWAS.

COMMUNICATIONS: CTAF 118.9 ATIS 125.05 UNICOM 122.95

RCO 122.25 (DE RIDDER RADIO)

R APP/DEP CON 126.9 (180°-359°) 118.15 (360°-179°) (1200-0400Z‡)

R FORT WORTH CENTER APP/DEP CON 126.325 (0400-1200Z‡)

TOWER 118.9 (1200-0400Z‡) GND CON 121.9 CLNC DEL 121.65

AIRSPACE: CLASS D svc 1200-0400Z‡ other times CLASS E.

TRSA svc ctc APP CON within 25 NM below 7000'.

RADIO AIDS TO NAVIGATION: NOTAM FILE MLU.

(L) VORTACW 117.2 MLU Chan 119 N32°31.01′ W92°02.16′ at fld. 80/3E. HIWAS.

 $\textbf{SABAR NDB (LOM)} \ \ 392 \quad \ \ \, \text{ML} \qquad \text{N32}°27.25' \ \ W92°06.25' \qquad 042°4.8 \ \text{NM to fld.} \ \text{Unmonitored when tower closed.}$ 

ILS 109.5 I-MLU Rwy 04. Class IT. LOM SABAR NDB Unmonitored when tower closed.

ILS 109.5 I-MZR Rwy 22. Class IT. Unmonitored when tower closed.

ASR (1130-0500Z‡)

#### MOREHOUSE MEM (See BASTROP)

MOSSY N30°18.40′ W93°11.77′. NOTAM FILE CWF. NDB (LOM) 418 CW 150° 6.3 NM to Chennault Intl.

HOUSTON

NATCHITOCHES RGNL (IER) 2 S UTC-6(-5DT) N31°44.14′ W93°05.95′ 121 B S4 FUEL 100LL, JET A1+ NOTAM FILE IER RWY 17-35: H5003X150 (ASPH) S-30 MIRI RWY 17: REIL. PAPI(P4L)-GA 3.0° TCH 40'. Trees.

RWY 35: ODALS. PAPI(P4L)-GA 3.0° TCH 45'. Trees.

RWY 07-25: H4000X100 (ASPH-AFSC) S-21 MIRL RWY N7: Trees RWY 25. P-line

AIRPORT REMARKS: Attended dawn-dusk. For arpt attendant after hrs call 318-471-2106. Fuel avbl 24 hr with credit card. MIRL Rwy 17-35 and REIL Rwy 17 preset low ints dusk to dawn, to increase ints and ACTIVATE MIRL Rwy 07-25-CTAF. Rwy 35 ODALS operate low ints continuously, to increase ints ACTIVATE-CTAF,

WEATHER DATA SOURCES: AWOS-3 119.025 (318) 352-1575.

COMMUNICATIONS: CTAF/UNICOM 122.8

R POLK APP/DEP CON 125.4

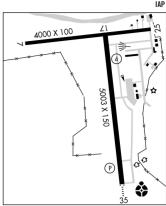
GCO 135.075 (FORT POLK APCH AND DE RIDDER FSS)

RADIO AIDS TO NAVIGATION: NOTAM FILE AEX.

ALEXANDRIA (H) VORTACW 116.1 AFX Chan 108 N31°15.40' W92°30.06' 310° 42.0 NM to fld. 80/3E. HIWAS.

000 N31°39.45′ W93°04.66′ NDB (MHW) 407 NM to fld. NOTAM FILE IER.

I-IER Rwy 35. LOC only. LOC unmonitored 0000-1200Z‡.



NOTZUNH

H-61, L-22E

#### **NEW IBERIA**

ACADIANA RGNL (ARA) 4 NW UTC-6(-5DT) N30°02.27′ W91°53.03′ 24 B S2 FUEL 100LL, JET A OX 4 TPA-1024(1000)

NUTSIIUH Class IV, ARFF Index A H-7D, L-21B, 22E, GOMC

M91

NOTAM FILE ARA RWY 16-34: H8002X200 (CONC) D-105, DT-163,

DDT-400 HIRL RWY 16: ODALS. PAPI(P4L)-GA 3.0° TCH 50'.

RWY 34: MALSR. PAPI(P4L)-GA 3.0° TCH 50'. Rgt tfc.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 16: TORA-8002 TODA-8002 ASDA-8002 LDA-8002 TORA-8002 TODA-8002 ASDA-8002 LDA-8002 RWY 34:

AIRPORT REMARKS: Attended 1300-0300Z‡. For fuel after hrs call 337-367-1401, FAX 337-367-1404. CAUTION-seaplane landing area (water channel) West of and adjacent/parallel to runway. Rwy 16W-34W seaway edge Igts green; thid Igts amber. Bird activity invof arpt. ARFF PPR for more than 30 passenger seats call arpt manager 337-365-7202. Rotor wing movement and landing area between the rwy and seaway. Intensive helicopter training. When twr closed HIRL Rwy 16-34 preset low ints, to increase ints and ACTIVATE MALSR Rwy 34-CTAF.

WEATHER DATA SOURCES: ASOS 133.325 (337) 365-0128.

COMMUNICATIONS: CTAF 125.0 UNICOM 122.95

R LAFAYETTE APP/DEP CON 121.1 (1030-0530Z‡) LAFAYETTE CLNC DEL 118.05

HOUSTON CENTER APP/DEP CON 126.35 (0530-1030Z‡)

TOWER 125.0 (1200-0300Z±) GND CON 121.7 CLNC DEL 121.7

AIRSPACE: CLASS D svc 1200-0300Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE LET.

LAFAYETTE (L) VORTACW 109.8 LFT Chan 35 N30°11.63′ W91°59.55′ 146° 10.9 NM to fld. 36/3E. 2AWIH

ACADI NDB (MHW/LOM) 269 AR N29°57.38′ W91°51.80′  $345^{\circ}\,5.0$  NM to fld. NOTAM FILE ARA.

IL\$ 108.9 I-ARA Rwy 34. Class IA. LOM ACADI NDB.

20 TPA-920(900)

WATERWAY 16-34: 5000X150 (WATER) MIRL

WATERWAY 16: Rgt tfc.

SEAPLANE REMARKS: Waterway 16-34 seaway edge Igts green, thid Igts amber. ACTIVATE seaway edge Igts Waterway 16-34-122.7. 3 clicks on 7 clicks off.

NEW ORLEANS N30°02 38' W90°01 60' RCO 122.6 (DE RIDDER RADIO)

NEW ORLEANS H-7E, 8F, L-22F

# **NEW ORLEANS**

LAKEFRONT (NEW) 4 NE UTC-6(-5DT) N30°02.54′ W90°01.70′ 8 B S4 FUEL 100LL, JET A OX 1, 3 LRA NOTAM FILE NEW RWY 18R-36L: H6867X150 (ASPH-GRVD) S-60, D-175, DT-200, DDT-350

H-7E, 8F, L-21B, 22F, GOMC IAP, AD

NEW ORLEANS

RWY 18R: PAPI(P4L)—GA 3.0° TCH 51'. Thid dsplcd 228'. Pier. Rgt tfc.

RWY 36L: REIL. PAPI(P4L)—GA 3.0° TCH 50'. Thid dspicd 820'.

RWY 18L-36R: H3697X75 (ASPH) S-35, D-55, DT-80 MIRL RWY 18L: REIL.

RWY 36R: REIL. PAPI(P4L)—GA 3.0° TCH 45'. Bldg. Rgt tfc.

RWY 09-27: H3113X75 (ASPH) S-50, D-80, DT-100 MIRL RWY 09: REIL. PAPI(P4L)—GA 3.0° TCH 40'. Berm.

RWY 27: PAPI(P4R)-GA 3.0° TCH 40'. Road. Rgt tfc.

#### LAND AND HOLD SHORT OPERATIONS

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 18R	09-27	5359
RWY 27	18R-36L	2560

#### RUNWAY DECLARED DISTANCE INFORMATION

RWY 09:	TORA-3113	TODA-3113	ASDA-3113	LDA-3113
RWY 18L:	TORA-3697	TODA-3697	ASDA-3697	LDA-3697
RWY 18R:	TORA-6880	TODA-6880	ASDA-6880	LDA-6640
RWY 27:	TORA-3113	TODA-3113	ASDA-3113	LDA-3113
RWY 36L:	TORA-6880	TODA-6880	ASDA-6880	LDA-6060
RWY 36R:	TORA-3697	TODA-3697	ASDA-3697	LDA-3697



AIRPORT REMARKS: Attended continuously. Birds on and invof arpt. Boats as high as 80' pass within 400' of Rwy 09 thld. PAEW adjacent AER 27 dalgt hours. Rwy 18R–36L few low spots near intersection of Rwy 09–27 holding water. Twy A and Twy A1 clsd indef. Twy G closed west of Rwy 18R–36L indef. Hold short sign on Rwy 09–27 at intersection Rwy 18R–36L unlgtd. MIRL Rwy 18R–36L preset med ints. Twy Igts for twys A, B, D, E, F and H preset on medium when twr clsd. ARFF capability equivalent to Index B. Acft transporting any items listed in Part 175 title 49 PPR to land. Landing fee. Landing fee waived with minimum fuel purchase. Wind sock light OTS indef. Rwy 09–27 MIRL OTS indef. Rwy 09–27 MIRL avbl on low ints only. Flight Notification Service (ADCUS) temporarily not available. NOTE: See Special Notices—U.S. Special Customs Requirement.

WEATHER DATA SOURCES: ASOS 128.25 (504) 242-5993. LAWRS.

COMMUNICATIONS: CTAF 119.9 ATIS 124.9 UNICOM 122.95

NEW ORLEANS RCO 122.6 (DE RIDDER RADIO) OTS indef.

R NEW ORLEANS APP/DEP CON 133.15 (North) 123.85 (South)

TOWER 119.9 (1400-0000Z‡) GND CON 121.7 CLNC DEL 127.4 (NEW ORLEANS APP/DEP CON when twr clsd) AIRSPACE: CLASS D svc 1400-0000Z‡ other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE NEW.

HARVEY (H) VORTACW 114.1 HRV Chan 88 N29°51.01′ W90°00.18′ 351° 11.6 NM to fld. 0/2E. ILS/DME 111.3 I-NEW Chan 50 Rwy 18R.

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LOUIS ARMSTRONG NEW ORLEANS INTL (MSY) 10 W UTC-6(-5DT) N29°59.60' W90°15.48' NEW ORLEANS
  4 B FUEL 100LL, JET A LRA Class I, ARFF Index D NOTAM FILE MSY
                                                                                    H-7F I-21B 22F GOMC
  RWY 10-28: H10104X150 (CONC-GRVD) S-75, D-180, DT-380 HIRL CL
                                                                                                ΙΔΡ ΔΠ
    RWY 10: ALSF2. TDZL. PAPI(P4R)—GA 2.8° TCH 53'.
    RWY 28: MALSR. PAPI(P4R)—GA 3.0° TCH 55'. Thid dsplcd 304'. Tree.
  RWY 01-19: H7001X150 (CONC-GRVD) S-75, D-180, DT-380 HIRL CL
    RWY 01: LDIN. PAPI(P4L)-GA 3.0° TCH 52'. Road.
    RWY 19: MALS. PAPI(P4L)-GA 3.0° TCH 52'. Road.
  RWY 06-24: H3570X150 (ASPH) S-75, D-180, DT-380 HIRL
    RWY 06: Pole.
                      RWY 24. Tree
  RUNWAY DECLARED DISTANCE INFORMATION
    RWY 01: TORA-7001 TODA-7001 ASDA-7001 LDA-7001
            TORA-3570
                          TODA-3570 ASDA-3570 LDA-3570
    RWY NA-
            TORA-10104 TODA-10104 ASDA-10104 LDA-10104
    RWY 10.
            TORA-7001
    RWY 19-
                           TODA-7001 ASDA-7001
                                                       LDA-7001
                           TODA-3570 ASDA-3570
    RWY 24:
             TORA-3570
                                                       LDA-3570
            TORA-10104 TODA-10104 ASDA-10104 LDA-9800
    RWY 28:
  AIRPORT REMARKS: Attended continuously. Rwy 06-24 CLOSED to tkfs and ldgs indef. Flocks of birds on and invof
    arpt. 180 degree and locked wheel turns prohibited on ASPH surface aircraft 12,500 pounds and over. Rwy 01
    and Rwy 19 runway visual range touchdown and rollout avbl. Rwy 10 and Rwy 28 runway visual range apch
    midpoint and rollout avbl. Rwy 10 noise sensitive for dep, avbl for operational necessity. All rwys noise sensitive
    for arrival. Arriving turbojets must make 5 mile final approach to minimize noise. Flight Notification Service
    (ADCUS) available. NOTE: See Special Notices—Continuous Power Facilities and U.S. Special Customs
    Requirement.
  WEATHER DATA SOURCES: ASOS (504) 461-5345. LLWAS.
  COMMUNICATIONS: D-ATIS 127.55 (504) 471-4417 UNICOM 122.95
 (R) NEW ORLEANS APP/DEP CON 133.15 (N and E) 123.85 (SE and S) 125.5 (W)
    TOWER 119.5 GND CON 121.9 CLNC DEL 127.2 PRE TAXI CLNC 127.2
  AIRSPACE: CLASS B: See VFR Terminal Area Chart.
  RADIO AIDS TO NAVIGATION: NOTAM FILE MSY.
    RESERVE (L) VORW/DME 110.8 ROR Chan 45 N30°05.25′ W90°35.32′ 106° 18.1 NM to fld. 5/2E.
    KINTE NDB (HW/LOM) 338 MS N30°01.51′ W90°23.99′ 102° 7.6 NM to fld.
    ILS 109.9 I-MSY Chan 36 Rwy 10. Class IIIE.
                                                       LOM KINTE NDB
    ILS/DME 111.7 I-JFI Chan 54 Rwy 01. Class IB.
    ILS/DME 111.7 I-ONW Chan 54 Rwy 19. LOC only.
    ILS/DME 109.9 I-HOX Chan 36 Rwy 28. Class IT.
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# NEW ORLEANS DOWNTOWN HELIPORT (7NØ) O N UTC-6(-5DT) N29°57.16' W90°04.96' NEW ORLEANS

30 FUEL JET A NOTAM FILE DRI

HELIPAD H1: H80X80 (CONC)

HELIPORT REMARKS: Attended continuously. Helipad H1 200' lgtd twr 1000'south southwest, 500' buildings 700' east northeast, 350' building 375' southeast, and 1100' south of helipad. Helipad H1 PVASI with a 8.5° glide angle. Helipad H1 ingress 210° for west apch, 070° for east apch. Helipad H1 rooftop of parking garage. Landing fee. Landing fee waived with fuel purchase, ACTIVATE PVASI Helipad H1—CTAF.

WEATHER DATA SOURCES: AWOS-3 133.1 (504) 525-1711.

COMMUNICATIONS: CTAF/UNICOM 123.05

NEW ORLEANS NAS JRB (ALVIN CALLENDER FLD) (NBG)(KNBG) NAS (ANG CG) 3 S NEW ORLEANS UTC-6(-5DT) N29°49.63' W90°01.60' H-7E, 8F, L-21B, 22F, GOMC 2 B TPA—See Remarks NOTAM FILE MSY ΠΙΔΡ ΔΠ Not insp. RWY 04-22: H10000X200 (PEM) PCN 59 R/C/W/T HIRI RWY 04: ALSF1. PAPI(P4L). OLS. WAVE-OFF. RWY 22: SALS. PAPI(P4L). OLS. WAVE-OFF. Rgt tfc. RWY 14-32: H6000X200 (PEM) PCN 71 R/C/W/T MIRI DWV 32. OLG ARRESTING GEAR/SYSTEMS RWY 04 HOOK E28(B) (1500') HOOK E-28(B) (1500') RWY 22 RWY 14 HOOK E-28(B) (1025') HOOK E-28(B) (1025') RWY 32 MILITARY SERVICE: LGT OLS Rwv 04-22 and Rwv 14-32 OTS indef. A-GEAR Do not land directly on A-Gear cable. JASU 4 (NC-10C) 4 (A/M 47A-4) Limited DC power. FUEL J8. Opr 1330-0430Z‡. Fuel delays Fri-Sun. Tran acft expect some delay for svc outside normal working hr. FLUID PRESAIR LHOX LOX OIL 0-128-156 MILITARY REMARKS: Opr 1300-0500Z‡. See FLIP AP/1 Supplementary Arpt info. RSTD PPR all acft DSN 678-3602/3 C504-678-3602/3. CAUTION Numerous civilian acft opr to/from canals vicinity afld. Bird hazard. TFC PAT TPA—Overhead break altitude 1499(1497). Pattern altitude 999(997). Reduced rwy separation in effect for all local based tactical acft; 3000' between similar acft; 6000' between dissimilar acft. Tran acft may utilize reduced rwy separation only after being briefed. CSTMS/AG/IMG CSTMS avbl 2 hr prior notice. Ctc Customs C504-269-6149, FTS 269-6149 for appointment. MISC Limited classified material storage. Ctc Base OPS DSN 678-3100, C504-678-3100 or fax DSN 678-9575, C504-678-9575, CG Opr rstd 0500-1300Z± to CG. C504-393-6032. COMMUNICATIONS: ATIS 276.2 R APP/DEP CON 123.85 256.9 NAVY NEW ORLEANS TOWER 123.8 340.2 360.2 (1300-0500Z‡) NAVY NEW ORLEANS GND CON 121.6 382.8 PMSV METRO 265.8 (Opr 1200-00007±) BASE OPS 379.15 CG 345.0X 5696X 8984 (ctc New Orleans air) RADIO AIDS TO NAVIGATION: NOTAM FILE NEW. HARVEY (H) VORTACW 114.1 HRV Chan 88 N29°51.01′ W90°00.18′ 220° 1.8 NM to fld. 0/2E. ILS 109.5 I–NBG Rwv 04. No NOTAM MP Mon 1300-1800Z±. ACR/PAR COMM/NAV/WEATHER REMARKS: Radar see Terminal FLIP for Radar Minima. FALSE RIVER RGNL (HZR) 2 NW UTC-6(-5DT) N30°43.10′ W91°28.72′ 40 B FUEL 100LL TPA-873(834) NOTAM FILE DRI

### NEW RUADS

HOUSTON H-7D, L-21B, 22F

RWY 18-36: H5003X75 (ASPH) S-14 MIRL

RWY 18: REIL. PAPI(P2L)-GA 3.45° TCH 62'. Trees.

RWY 36: ODALS, PAPI(P2L)-GA 3.0° TCH 50'. AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z‡, For attendant after hrs call 225-638-8930 or 225-978-8367. Self-service fuel avbl 24 hrs. MIRL Rwy 18-36, REIL Rwy 18 and ODALS Rwy 36

preset low ints dusk to dawn, to increase ints ACTIVATE-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.8

R BATON ROUGE APP/DEP CON 120.3 (1100-0600Z‡)

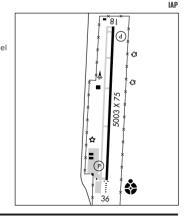
(R) HOUSTON CENTER APP/DEP CON 126.35 (0600-1100Z±) GCO 135.075 (DE RIDDER FSS)

RADIO AIDS TO NAVIGATION: NOTAM FILE BTR.

BATON ROUGE (L) VORTACW 116.5 BTR Chan 112 N30°29.11' W91°17.64' 320° 16.9 NM to fld. 20/6E.

NEW ROADS NDB (MHW) 356 FWX N30°37.99' W91°29.36' 002° 5.1 NM to fld. NOTAM FILE DRI.

ILS 111.9 I-HZR Rwy 36. LOC only.



NEW ROADS N30°37.99′ W91°29.36′

NDB (MHW) 356 FWX 002° 5.1 NM to False River Rgnl.

иптанин L-21B. 22F

OAKDALE N30°38.47′ W92°41.35′ 357° 6.5 NM to Allen Parish, NOTAM FILE DRI

HOUSTON L-21B, 22E

#### OAKDALE

ALLEN PARISH (ACP) 4 S UTC-6(-5DT) N30°45.03′ W92°41.31′

107 B FUEL 100LL, JET A NOTAM FILE DRI

RWY 18-36: H4994X75 (ASPH) S-11 MIRL

RWY 18: REIL. PAPI (P2L)-GA 3.0° TCH 50'. Trees.

RWY 36: REIL. PAPI (P2L)-GA 3.0° TCH 50'. Trees.

AIRPORT REMARKS: Attended continuously. Fuel avbl self service with credit card. PAPI Rwy 18 OTS indef. PAPI Rwy 36 OTS indef. MIRL Rwv 18-36 and REIL Rwv 18 and Rwv 36 preset low ints dusk to dawn, to incr ints ACTIVATE-CTAF.

WEATHER DATA SOURCES: AWOS-3 118.275 (318) 215-9728. Unreliable.

COMMUNICATIONS: CTAF/UNICOM 122.8

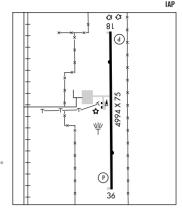
R POLK APP/DEP CON 123.7

GCO 135.075 (POLK APCH CTL and Flight Services)

RADIO AIDS TO NAVIGATION: NOTAM FILE AEX.

ALEXANDRIA (H) VORTACW 116.1 AEX Chan 108 N31°15.40' W92°30.06' 195° 31.8 NM to fld. 80/3E. HIWAS.

OAKDALE NDB (MHW) 379 LRR N30°38.47′ W92°41.35′ 6.5 NM to fld. NOTAM FILE DRI.



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L-21B. 22E

# OAK GROVE

KELLY (9M6) 1 SW UTC-6(-5DT) N32°50.95′ W91°24.24′ 112 B S4 FUEL 100LL, JET A NOTAM FILE DRI

RWY 18-36: H3000X60 (ASPH) S-10 MIRL

RWY 18: REIL. PAPI(P2L)—GA 3.75° TCH 47'. Thid dspicd 250'.

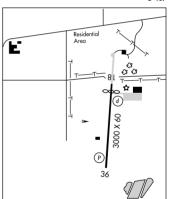
P-line

RWY 36: REIL. PAPI(P2L)-GA 3.0° TCH 50'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1400-2200Z‡. Fuel avbl 24 hrs with credit card, MIRL Rwy 18-36 and REIL Rwy 18 and Rwy 36 preset low ints dusk to dawn, to increase ints ACTIVATE—CTAF.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE MLU. MONROE (L) VORTACW 117.2 MLU Chan 119 N32°31.01' W92°02.16' 055° 37.7 NM to fld. 80/3E. HIWAS.



#### OIL CITY

THACKERS (5F8) 3 N UTC-6(-5DT) N32°47.49′ W93°57.39′

202 NOTAM FILE DRI

RWY 08-26: 2900X50 (TURF)

RWY 08: Trees. RWY 26: Trees.

AIRPORT REMARKS: Unattended, Livestock on and in vicinity of rwy.

**COMMUNICATIONS: CTAF 122.9** 

L-18F

MEMPHIS

MEMPHIS

 ${\bf 0LLA} \quad \hbox{(L47)} \quad {\bf 1} \; \hbox{E} \quad \hbox{UTC-6(-5DT)} \quad \hbox{N31°53.77'} \; \hbox{W92°13.07'} \\$ 

130 B NOTAM FILE DRI

RWY 03-21: H3010X75 (ASPH) S-9

RWY 03: Trees. RWY 21: Thid dspicd 190'. Trees.

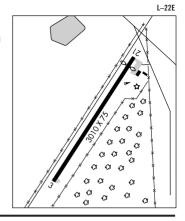
AIRPORT REMARKS: Unattended. Arpt CLOSED ngts. Ponding on rwy and twys during heavy rains. Rwy 03 has a dip 450' from apch end of rwy. Rwy 03–21 surface cracked, dip in rwy near Rwy 03 end. Dsplcd thld markings NSTD, no chevrons, arrows or thid bar.

Rotating bcn OTS indef. Windsock OTS indef.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE MLU.

MONROE (L) VORTACW 117.2 MLU Chan 119 N32°31.01′ W92°02.16′ 191° 38.3 NM to fld. 80/3E. HIWAS.



#### **OPFI OUSAS**

ST LANDRY PARISH-AHART FLD (OPL) 2 NW UTC-6(-5DT) N30°33.50′ W92°05.96′

HOUSTON H-7D, L-21B, 22E

ΙΔΡ

NOTZUNH

75 B S2 **FUEL** 100LL, JET A NOTAM FILE DRI **RWY 18-36**: H5999X100 (CONC) S-30 MIRL

RWY 18: REIL. PAPI(P2L)—GA 3.5° TCH 58'. Trees. Thid dspicd 150'.

RWY 36: REIL. PAPI(P2L)—GA 3.5° TCH 52'. Thid dsplcd 789'. Road.

RWY 06-24: H4051X100 (CONC) S-30

RWY 06: Thid dspicd 165'. Trees. RWY 24: Thid dspicd 169'. Road. Rgt tfc.

AIRPORT REMARKS: Attended Mon–Sat 1400–2300Z‡, Sun 1400–1800Z‡. For fuel after hours call 337–407–1551. Parachute Jumping. Rwy 06–24 has some cracks with grass. Rwy has ponding during wet weather. Rwy 18–36 has cracks with grass in cracks. Bump in Rwy 18 at 850′ from dsplcd thld. Rwy has ponding during wet weather. MIRL Rwy 18–36, REIL Rwy 18 and Rwy 36 preset low ints dusk to dawn, to increase ints ACTIVATE—CTAF. NOTE: See Special Notices—Aerobatic Practice Area.

COMMUNICATIONS: CTAF/UNICOM 123.0

(R) LAFAYETTE APP/DEP CON 128.7 (1030-0530Z‡)

HOUSTON CENTER APP/DEP CON 126.35 (0530-1030Z‡)

GCO 135.075 (LAFAYETTE APCH and DE RIDDER FSS)

RADIO AIDS TO NAVIGATION: NOTAM FILE LFT.

LAFAYETTE (L) VORTACW 109.8 LFT Chan 35 N30°11.63′ W91°59.55′ 343° 22.5 NM to fld. 36/3E. HIWAS.

NDB (MHW) 335 OPL N30°39.32′ W92°05.92′ 176° 5.8 NM to fld. NOTAM FILE DRI.

PATTERSON N29°42.88′ W91°20.20′ NOTAM FILE PTN.

HOUSTON L-21B. 22F, GOMC

NDB (MHW) 245 PTN at Harry P. Williams Mem. Unusable byd 15 NM.

.-21b, 221, domo

**PATTERSON** N29°42.68′ W91°20.31′ **RCO** 122.5 (DE RIDDER RADIO)

HOUSTON L-22F

# **PATTERSON**

HARRY P. WILLIAMS MEM (PTN) 2 NW UTC-6(-5DT) N29°42.57′ W91°20.34′

9 B S4 **FUEL** 100LL, JET A NOTAM FILE PTN

RWY 06-24: H5399X150 (ASPH) S-32 MIRL

H-7D, L-21B, 22F, GOMC

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RWY 06: REIL. PAPI(P2L). Thid dspicd 395'. GA 3.0° TCH 50'. Trees. RWY 24: MALSR. PAPI(P2L)—GA 3.0°TCH 50'. Rgt tfc.

AIRPORT REMARKS: Attended dawn-dusk. CAUTION—seaplane landing area (water channel) Southeast of adjacent/parallel runway. Rwy 06–24 3" lip (dropoff) south side of rwy. MIRL Rwy 06–24 and REIL Rwy 06 preset low ints dusk to dawn, to increase ints and ACTIVATE MALSR Rwy 24—CTAF.

WEATHER DATA SOURCES: AWOS-3 134.575 (985) 395-6735.

COMMUNICATIONS: CTAF/UNICOM 122.8

PATTERSON RCO 122.5 (DE RIDDER RADIO)

TIBBY RCO 122.1R 112.0T (DE RIDDER RADIO)

R NEW ORLEANS APP/DEP CON 124.3

RADIO AIDS TO NAVIGATION: NOTAM FILE DRI.

TIBBY (L) VORTAC 112.0 TBD Chan 57 N29°39.86′ W90°49.75′ 274° 26.8 NM to fld. 10/2E.

PATTERSON NDB (MHW) 245 PTN N29°42.88′ W91°20.20′ at fld. NOTAM FILE PTN. Unusable byd 15 NM.

ILS/DME 108.3 I-PTN Chan 20 Rwy 24. Class IA.

TPA-1009(1000)

WATERWAY 04-22: 4500X100 (WATER)

WATERWAY 04: Road. Rgt tfc. WATERWAY 22: Trees.

SEAPLANE REMARKS: ACTIVATE MIRL Waterway 04-22-122.9.

PINEVILLE MUNI (2LØ) 2 N UTC-6(-5DT) N31°20.53′ W92°26.61′ 100 B S4 FUEL 100LL TPA-SEE REMARKS NOTAM FILE DRI HOUSTON L-21B. 22E

RWY 18-36: H3000X75 (ASPH) S-15.5 MIRL

RWY 18: REIL. PAPI(P2L)—GA 4.0° TCH 68'. Trees. RWY 36: REIL. PAPI(P2R)—GA 3.0° TCH 49'. Trees.

AIRPORT REMARKS: Attended Mon–Sat 1400–2200Z‡ For fuel after hrs call 318–449–5679. Rwy 18 drop off 95' from end of rwy. Rwy 36 lake 96' from end of rwy. TPA–1100' MSL for fixed wing for Rwy 18–36. 800' for acft for water Rwy 05W–23W. MIRL Rwy 18–36, REIL Rwy 18 and Rwy 36 preset on low ints dusk to dawn, to increase ints ACTIVATE—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE AEX.

**ALEXANDRIA (H) VORTACW** 116.1 AEX Chan 108 N31°15.40′ W92°30.06′ 027° 5.9 NM to fld. 80/3E. **HIWAS.** 

WATERWAY 05W-023W: 3000X100 (WATER)

WATERWAY 23W: Rgt tfc.

POLK AAF (FORT POLK) (POE)(KPOE) A 7 SE UTC-6(-5DT) N31°02.69' W93°11.50' NOTZUNH 330 B TPA—See Remarks NOTAM FILE DRI I-21R 22F RWY 15-33: H4109X125 (ASPH) ΠΙΔΡ PCN 38 F/A/W/T HIRI RWY 15: ODALS. REIL. PAPI(P4L). Thid dspicd 197'. RWY 33: ALSF1. REIL. PAPI(P4L). MILITARY SERVICE: LGT Rwy 15 and Rwy 33 PAPI OTS indef. FUEL J8 OIL 0-156 TRAN ALERT Limited svc. MILITARY REMARKS: Opr Mon-Fri 1300-0400Z‡. Closed weekends and fed hols. 24 hr ops during JRTC rotations. RSTD PPR 24 hr DSN 863-7328, C337-531-4831/7328. TFC PAT All patterns W of fld. TPA-Fixed Wing tfc 1800(1470), Rotary Wing tfc 1000(670). MISC Rotary Wing Special VFR dalgt 500-1, ngt unaided/ngt vision goggles 700-2, Fixed Wing Special VFR not authorized. Rotary wing Special VFR recovery only dalt 300-1/2, ngt unaided/Night Vision Devices 500-1. Fixed Wing Special VFR recovery not authorized. Surface visibility observation blocked NW-SE by hills, building and trees. Wx forecast avbl 26th OWS, DSN 781-4775, C1-866-223-9328 toll free. COMMUNICATIONS: ATIS 134.85 234.3 (R) APP/DEP CON 123.7 254.8 TOWER 119.0 257.75 41.5 GND CON 121.8 239.25 PMSV METRO 134.1 249.75 40.35 POE OPS 36.05 374.2 RANGE CON 143 2 373 3 40 95 MEDEVAC OPS 42.50 FLT FOLLOWING 123.7 254.8 (All flights ctc Polk apch 30 NM out.) RADIO AIDS TO NAVIGATION: NOTAM FILE DRI. FXU N31°06.70′ W93°13.07′ 156° 4.2 NM to fld. 315/5E. Unusable (T) VORTAC 108.4 Chan 21 340°-029° byd 20 NM blo 3000'. GUV N31°01.70′ W93°11.09′ GATOR NDB (MHW) 359 336° 1 1 NM to fld ASR/PAR COMM/NAV/WEATHER REMARKS: Radar see Terminal FLIP for Radar Minima. POLLOCK MUNI (166) 4 SW UTC-6(-5DT) N31°28.65′ W92°27.67′ HOUSTON 203 B NOTAM FILE DRI I-21R 22F RWY 18-36: H4499X75 (ASPH) S-49 MIRI RWY 18: Trees RWY 36: Trees AIRPORT REMARKS: Attended Mon-Sat 1400-2300Z‡. First 1000' Rwy 18 CLOSED indef. Rwy 18-36 cracking and

AIRPORT REMARKS: Attended Mon–Sat 1400–2300Z‡. First 1000' Rwy 18 CLOSED indef. Rwy 18–36 cracking and grass growing through cracks. Cracks in rwy > ¼ inch. Surface rough. Ponding/standing water outer edges of Rwy 18 apch. Helicopter running landings not authorized on Rwy 18–36. Extensive military operations. Rotating bcn located 1/2 mile SE of arpt. MIRL Rwy 18–36 preset low ints, to incr ints ACTIVATE–122.7.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE AEX.

ALEXANDRIA (H) VORTACW 116.1 AEX Chan 108 N31°15.40′ W92°30.06′ 006° 13.4 NM to fld. 80/3E. HIWAS.

#### RAYVILLE

JOHN H HOOKS JR MEM (M79) 1 NW UTC-6(-5DT) N32°29.13′ W91°46.26′

MEMPHIS L-18F

83 B S4 **FUEL** 100LL, JET A NOTAM FILE DRI **RWY 18-36**: H3998X75 (ASPH) S-12 MIRL

RWY 18: REIL. PAPI(P2L)—GA 3.5° TCH 58'. Trees.

RWY 36: REIL. PAPI(P2L)—GA 3.5° TCH 53'. Thid dspicd 291'.

Trees.

RWY 09-27: 2224X100 (TURF)

RWY 09: Trees. RWY 27: P-line.

AIRPORT REMARKS: Attended dalgt hrs. Rwy 18 thld dsplcd 1200' indef. Dsplcd thld markings NSTD-yellow. Rwy 18 and Rwy 36 REIL OTS indef. Numerous rwy edge Igts OTS indef. MIRL Rwy 18–36, REIL Rwy 18 and Rwy 36 preset low ints dusk to dawn, to increase ints ACTIVATE—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

MONROE APP/DEP CON 126.9 (1200-0400Z‡)

R FORT WORTH CENTER APP/DEP CON 126.325 (0400-1200Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE MLU.

 MONROE (L) VORTACW
 117.2
 MLU
 Chan 119
 N32°31.01′

 W92°02.16′
 095° 13.6 NM to fld. 80/3E.
 HIWAS.

 MOLLY RIDGE NDB (MHW) 338
 MRK
 N32°24.55′
 W91°46.68′

002° 4.6 NM to fld. NOTAM FILE DRI.

81

(d)

**RESERVE** N30°05.25′ W90°35.32′ NOTAM FILE MSY.

(L) VORW/DME 110.8 RQR Chan 45 at Saint John The Baptist Parish. 5/2E.

NEW ORLEANS L-21B, 22F, GOMC

# **RESERVE**

SAINT JOHN THE BAPTIST PARISH (1LØ) 2 NW UTC-6(-5DT) N30°05.22' W90°34.96'

7 B FUEL 100LL, JET A NOTAM FILE DRI

RWY 17-35: H3999X75 (ASPH) MIRL

RWY 17: REIL PAPI(P2L)—GA 3.0° TCH 28'. Trees.

RWY 35: PAPI(P2L)-GA 3.5° TCH 32'. Rgt tfc.

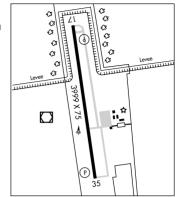
AIRPORT REMARKS: Attended 1330–2200Z‡. For attendant after hrs call 509–416–5988. Fuel avbl 24 hrs self svc with credit card. Birds on and invof arpt. Extensive ultralight activity. MIRL Rwy 17–35 preset low intensity, to increase intensity and ACTIVATE REIL Rwy 17—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.7

R NEW ORLEANS APP/DEP CON 125.5

RADIO AIDS TO NAVIGATION: NOTAM FILE MSY.

**RESERVE (L) VORW/DME** 110.8 RQR Chan 45 N30°05.25′ W90°35.32′ at fld. 5/2E.



**RUNDI** N30°34.97′ W91°12.66′ NOTAM FILE BTR.

NDB (LOM) 284 BT 130° 4.4 NM to Baton Rouge Metropolitan, Ryan Fld.

HOUSTON L-21B, 22F

MEMPHIS

H-61. L-17E

NEW ORLEANS

ΙΔΡ

L-21B. 22F. GOMC

RUSTON RGNL (RSN) 3 E UTC-6(-5DT) N32°30.88′ W92°35.31′ 311 B S2 FUEL 100LL, JET A TPA—1311(1000) NOTAM FILE RSN

RWY 18-36: H5000X100 (ASPH) MIRL. 0.7% up S

RWY 18: PAPI(P4L)—GA 3.0° TCH 40'. Trees.

RWY 36: PAPI(P4L)—GA 3.5° TCH 35'. Thild dsplcd 199'. Trees.

AIRPORT REMARKS: Attended dawn-dusk. Numerous training acft in vicinity. MIRL Rwy 18–36 preset low ints, to increase ints ACTIVATE—CTAF.

WEATHER DATA SOURCES: AWOS-3 119.525 (318) 242-0062.

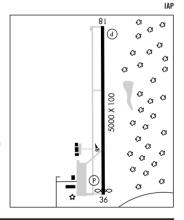
- R MONROE APP/DEP CON 126.9 (1200-0400Z‡) CLNC DEL 118.8
- R FORT WORTH CENTER APP/DEP CON 126.325 (0400-1200Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE MLU.

MONROE (L) VORTACW 117.2 MLU Chan 119 N32°31.01′ W92°02.16′ 267° 28.0 NM to fld. 80/3E. HIWAS.

NDB (MHW) 368 ROQ N32°36.52′ W92°35.31′ 177° 5.6 NM to fld. NOTAM FILE RSN. Unmonitored.

STUCKEY NDB (MHW) 350 TUF N32°24.53′ W92°35.37′ 357° 6.3 NM to fld. NOTAM FILE RSN. Unmonitored.



**SABAR** N32°27.25′ W92°06.25′ NOTAM FILE MLU.

NDB (LOM) 392 ML 042° 4.8 NM to Monroe Rgnl. Unmonitored when Monroe Rgnl tower clsd.

MEMPHIS L-18F

**SABINE 13B** (VBS) N29°28.70′ W93°38.30′

L-19E, L-21B, GOMW

AW0S-3 119.075

SAINT JOHN THE BAPTIST PARISH (See RESERVE)

ST JOSEPH

TENSAS PARISH (L33) 4 NE UTC-6(-5DT) N31°58.40′ W91°19.32′ 74 B FUEL 100LL NOTAM FILE DRI

иптенин L-18F

RWY 16-34: H3500X75 (ASPH) S-12 MIRL

RWY 34: Trees.

AIRPORT REMARKS: Unattended. For arpt attendant call 318-766-4585 or 318-301-0222. MIRL Rwy 16-34 preset low ints, to increase ints ACTIVATE-CTAF.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE MLU.

MONROE (L) VORTACW 117.2 MLU Chan 119 N32°31.01′ W92°02.16′ 126° 52 NM to fld. 80/3E.

ST TAMMANY RGNL (See COVINGTON)

ST LANDRY PARISH-AHART FLD (See OPELOUSAS)

SALSA (GHB) N27°50.42′ W91°59.27′

L-21B. GOMC

AWOS-3 118.025

**SAVRY** N32°14.72′ W91°01.55′ NOTAM FILE DRI.

NDB (MHW/LOM) 344 TV 357° 6.4 NM to Vicksburg Tallulah Rgnl.

MEMPHIS L-18F

SAWMILL N31°58.39′ W92°40.63′ NOTAM FILE DRI.

(H) VORW/DME 113.75 SWB Chan 84(Y) at David G. Joyce. 164/2E.

иптеппи H-61, L-22E

Unusable 216°-232° blo 6,500' and 233°-215° blo 2,500'.

SCOTT (See TALLULAH)

AW0S-3 120.525

SHIP SHOAL (SPR) N28°35.93' W91°12.38'

L-21B. GOMC

SHRFVFPNRT

**SHREVEPORT DOWNTOWN** (DTN) 3 N UTC-6(-5DT) N32°32.41′ W93°44.70′

179 B S4 FUEL 100LL, JET A OX 2, 3 NOTAM FILE DTN

**RWY 14–32:** H5018X150 (ASPH) S–35, D–55

RWY 14: REIL. PAPI(P4L)-GA 3.0° TCH 40'. Trees.

RWY 32: REIL. PAPI(P4R)-GA 3.0° TCH 29'. Trees. RWY 05-23: H3200X75 (ASPH) S-12.5 MIRL

RWY 05: REIL. PAPI(P2L)—GA 4.0°. Thid dsplcd 230'. Bldg.

RWY 23: REIL. PAPI(P2L)-GA 4.0°. Trees.

AIRPORT REMARKS: Attended dawn-dusk. All VFR tfc remain within 11/2 miles NE thru SW from the center of the arpt due to

Shreveport/Barksdale AFB CLASS C airspace, Birds on and invof arpt. Rwy 14 designated calm wind rwy. Rwy 05-23 has minor cracking. Acft/vehicles not visible from twr on north 685' of Twy F. Twy F lgts OTS indef, Rwy 05 PAPI and REIL OTS indef, Rwy 23

PAPI and REIL OTS indef. Rotating bcn ots indef.

WEATHER DATA SOURCES: ASOS 118.525 (318) 425-7967.

COMMUNICATIONS: CTAF 120.225 UNICOM 122.95

SHREVEPORT RCO 122.6 (DE RIDDER RADIO)

R SHREVEPORT APP/DEP CON 119.9 (153°-319°) 123.75 (320°-152°) (1200-0600Z‡) 121.4 (0600-1200Z‡)

CLNC DEL 120.75 (when twr clsd)

TOWER 120.225 (1300-0400Z±)

**GND CON 121.65** 

AIRSPACE: CLASS D svc 1300-0400Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE SHV.

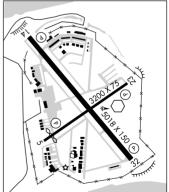
BELCHER (H) VORTACW 117.4 EIC Chan 121 N32°46.28′ W93°48.60′ 160° 14.2 NM to fld. 190/7E. DOWNTOWN (T) VORW 108.6 DTN N32°32.39′ W93°44.48′ at fld. NOTAM FILE DTN.

VOR unusable:

070°-100° beyond 10 NM below 7000' 180°–245° beyond 17 NM below 2500'

ILS/DME 111.7 I-DTN Chan 54 Rwy 14. LOC only.

MEMPHIS H-61, L-13D, 17E IAP. AD



246°-265° beyond 11 NM below 4500'

266°-280° beyond 23 NM below 2500'

99 SHREVEPORT RGNL (SHV) 4 SW UTC-6(-5DT) N32°26.80′ W93°49.54′ MEMPHIS 258 B S4 FUEL 100LL, JET A OX 3 LRA Class I, ARFF Index B NOTAM FILE SHV H-61 I-17F RWY 14-32: H8351X200 (ASPH-GRVD) S-75, D-190, DT-400 HIRL CL IAP, AD RWY 14: ALSF2. TDZL. 0.7% down. RWY 32: MALSR. Thid dsplcd 375'. Railroad. RWY 05-23: H6202X150 (ASPH-GRVD) S-75, D-158, DT-280 ব্যেখ RWY 05: REIL. PAPI(P4L)-GA 3.0° TCH 51'. Trees. RWY 23: REIL. VASI(V4L)-GA 3.0° TCH 54'. Trees. RUNWAY DECLARED DISTANCE INFORMATION RWY 05: TORA-6201 TODA-6201 ASDA-6201 LDA-6201 RWY 14: TORA-8351 TODA-8351 ASDA-8351 LDA-8351 RWY 23: TORA-6201 TODA-6201 ASDA-6201 LDA-6201 RWY 32: TORA-8351 TODA-8351 ASDA-8351 LDA-7976 AIRPORT REMARKS: Attended continuously. Bird activity invof arpt. Twy D O.C. clsd to acft over 60.000 lbs. Rwv 14-32 has significant cracking and joint deterioration. Landing fee for all commercial aircraft. Flight Notification Service (ADCUS) available Mon-Fri 1400-2300Z‡, other times by appointment call 318-635-7873 or 800-973-2867. WEATHER DATA SOURCES: ASOS (318) 636-5767. LLWAS. COMMUNICATIONS: ATIS 128.45 UNICOM 122.95 R APP/DEP CON 119.9 (153°-319°) 123.75 (320°-152°) (1200-0600Z‡) 121.4 (0600-1200Z‡) TOWER 121.4 GND CON 121.9 CLNC DEL 124.65 AIRSPACE: CLASS C svc continuous ctc APP CON RADIO AIDS TO NAVIGATION: NOTAM FILE SHV. BELCHER (H) VORTACW 117.4 EIC Chan 121 N32°46.28′ W93°48.60′ 175° 19.5 NM to fld. 190/7E. CRAKK NDB (LOM) 230 SH N32°30.11′ W93°52.69′ 136° 4.2 NM to fld. SHUTDOWN. I-FOG Rwy 32. Class IA. IIS 110 3

I-SHV Rwy 14. Class IIE. LOM CRAKK NDB. LOM SHUTDOWN.

**SLIDELL** (ASD) 4 NW UTC-6(-5DT) N30°20.78′ W89°49.25′ 29 B S4 FUEL 100LL, JET A NOTAM FILE ASD

RWY 18-36: H5001X100 (ASPH) S-48 MIRL

ILS 109.1 I-MWP Rwy 05. (LOC only).

RWY 18: REIL. PAPI(P2L)-GA 3.0° TCH 50'. Thid dspicd 944'. Trees.

RWY 36: REIL. PAPI(P2L)-GA 3.0° TCH 50'. Trees.

#### RUNWAY DECLARED DISTANCE INFORMATION

**IIS** 110 7

ASR

RWY 18: TORA-5001 TODA-5001 ASDA-5001 LDA-4057 RWY 36: TORA-5001 TODA-5001 ASDA-5001 LDA-5001 AIRPORT REMARKS: Attended 1200-0000Z±. Arpt unattended Christmas and New Years. Fuel avbl 24 hrs with credit card. Wildlife on and invof rwy, MIRL Rwy 18-36, REIL Rwy 18 and Rwy 36 preset low ints dusk to dawn, to increase ints and ACTIVATE-CTAF.

WEATHER DATA SOURCES: ASOS 132.475 (985) 643-7263.

COMMUNICATIONS: CTAF/UNICOM 122.8

#### (R) NEW ORLEANS APP/DEP CON 133.15

GCO 135,075 (NEW ORLEANS APCH and DE RIDDER FSS)

# RADIO AIDS TO NAVIGATION: NOTAM FILE GWO.

PICAYUNE (L) VORTAC 112.2 PCU Chan 59 N30°33.67' W89°43.83'

197° 12.8 NM to fld. 70/5E. FLORENVILLE NDB (MHW) 371 FNA N30°24.94′ W89°49.20′ 178°

3.2 NM to fld. NOTAM FILE ASD.

NDB (MHW) 256 DEF N30°17.81′ W89°50.05′ 007° 4.0 NM to fld. NOTAM FILE ASD.

SOUTH LAFOURCHE LEONARD MILLER JR. (See GALLIANO)

SOUTHLAND FLD (See SULPHUR)

SOUTH MARSH 268 (SCF) N29°06.95' W91°52.27' AWOS-3 119.575

L-21B. 22E. GOMC

NEW ORLEANS

H-7E, 8F, L-21B, 22F, GOMC

Ø 36

**SOUTH TIMBALIER** (STZ) N28°09.58′ W90°39.98′ AWNS-3 119 275

**SOUTH TIMBALIER** N28°32.01′ W90°35.00′ RCO 122.6 (DE RIDDER RADIO) OTS indef.

NEW ORLEANS L-21B

MEMPHIS

L-17E

L-21B. GOMC

**SPRINGHILL** (SPH) 3 E UTC-6(-5DT) N32°59.01′ W93°24.55′

218 B FUEL 100LL NOTAM FILE DRI RWY 18-36: H4002X75 (ASPH) MIRL

RWY 18: PAPI(P2I ) Trees RWY 36: PAPI(P2L), Trees.

AIRPORT REMARKS: Attended dawn to dusk, Rwv 36 PAPI OTS indef. MIRL Rwy 18-36 preset low, to increase ints ACTIVATE-CTAF. NOTE: See Special Notices—Aerobatic Practice Area.

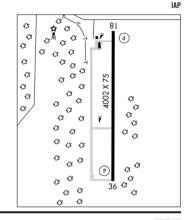
COMMUNICATIONS: CTAF/UNICOM 122.8

R SHREVEPORT APP/DEP CON 118.6 (1200-0600Z‡) 121.4 (0600-12007+)

RADIO AIDS TO NAVIGATION: NOTAM FILE SHV.

BELCHER (H) VORTACW 117.4 EIC Chan 121 N32°46.28' W93°48 60' 051° 23.9 NM to fld. 190/7E.

NDR (MHW) 375 SPH N32°55 22' W93°24 56' 355° 3 8 NM to fld. NOTAM FILE DRI. Unmonitored.



STUCKEY N32°24.53′ W92°35.37′ NOTAM FILE RSN.

NDB (MHW) 350 TUF 357° 6.3 NM to Ruston Rgnl. Unmonitored.

MEMPHIS L-17E

HOUSTON

SULPHUR N30°11.91′ W93°25.24′ NOTAM FILE DRI. NDB (MHW/LOM) 278 AUR 146° 4.6 NM to Southland Fld.

HOUSTON L-21B, 22E, GOMW

#### SULPHUR

SOUTHLAND FLD (UXL) 5 S UTC-6(-5DT) N30°07.89' W93°22.57'

H-7D, L-21B, 22E, GOMW

10 B S4 FUEL 100LL, JET A NOTAM FILE UXL S-30, D-50 MIRL RWY 15-33: H5001X75 (ASPH)

RWY 15: ODALS. REIL. PAPI(P2L)-GA 3.0° TCH 25'. Tree. RWY 33: REIL. PAPI(P2L)-GA 3.0° TCH 25'. AIRPORT REMARKS: Attended 1200-0200Z‡. REIL Rwy 33 OTS indef. MIRL Rwy 15-33, ODALS Rwy 15 and REIL Rwy

15 and Rwy 33 preset low ints dusk to dawn, to increase ints ACTIVATE—CTAF. NOTE: See Special Notices— Aerobatic Practice Area.

WEATHER DATA SOURCES: AWOS-3 118.175 (337) 558-5321.

COMMUNICATIONS: CTAF/UNICOM 122 8

- (R) LAKE CHARLES APP/DEP CON 119.35 (1200-0400Z‡).
- R HOUSTON CENTER APP/DEP CON 124.7 (0400-1200Z‡).

RADIO AIDS TO NAVIGATION: NOTAM FILE LCH.

LAKE CHARLES (H) VORTACW 113.4 LCH Chan 81 N30°08.49′ W93°06.33′ 261° 14.1 NM to fld. 20/7E. SULPHUR NDB (MHW/LOM) 278 AUR N30°11.91′ W93°25.24′ 146° 4.6 NM to fld. NOTAM FILE DRI.

ILS 109.3 I-UXL Rwy 15. LOC only.

# **TALLULAH**

SCOTT (M8Ø) 2 E UTC-6(-5DT) N32°24.98' W91°08.93' **MEMPHIS** L-18F

B NOTAM FILE DRI

RWY 18-36: H3014X75 (ASPH) S-12

RWY 36: Thid dspicd 250'. Road.

RWY 17-35: 2400X130 (TURF)

AIRPORT REMARKS: Attended on call. For attendant call 318-574-4416. Aerobatic box on fld check NOTAMS.

Numerous agricultural and ultralight ops at arpt. Rwy 36 dsplcd thld daylight ops only. 3' tall cotton crops 100' from rwy centerline on east side of rwy. ACTIVATE MIRL Rwy 18-36-CTAF.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE MLU.

MONROE (L) VORTACW 117.2 MLU Chan 119 N32°31.01′ W92°02.16′ 094° 45.4 NM to fld. 80/3E. HIWAS.

# TALLULAH/VICKSBURG. MS

VICKSBURG TALLULAH RGNL (TVR) 9 E UTC-6(-5DT) N32°21.10′ W91°01.66′

86 B S4 **FUEL** 100LL, JET A OX 1 TPA—1086(1000) NOTAM FILE TVR

RWY 18-36: H5002X100 (ASPH) S-60, D-75 MIRL

**RWY 18:** PAPI(P2L)—GA 3.33° TCH 29'. Trees.

RWY 36: PAPI(P2L)-GA 3.33° TCH 29'. P-line.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 18: TORA-5002 TODA-5002 ASDA-5002 LDA-5002 RWY 36: TORA-5002 TODA-5002 ASDA-5002 LDA-5002

AIRPORT REMARKS: Attended 1300–0100Z‡. For arpt attendant after

hrs call Sun-Tue 318-267-1323, Wed-Sat 601-529-7148, alternate number 318-366-1615 or 318-574-1080. For fuel after hrs call 318-366-1615. PAEW on arpt. Migratory birds invof arpt. Crop dusting activity 2 NM radius of arpt. Pilots in tfc pattern are requested to avoid over flight of Mound, LA ½ mile south and east of Rwy 36. MIRL Rwy 18-36 preset low ints, to increase ints ACTIVATE—CTAF.

WEATHER DATA SOURCES: ASOS 118.525 (318) 574-4866.

COMMUNICATIONS: CTAF/UNICOM 123.0

MEMPHIS CENTER APP/DEP CON 132.5

GCO 135.075 (DE RIDDER FSS)

RADIO AIDS TO NAVIGATION: NOTAM FILE JAN.

JACKSON (H) VORTAC 112.6 JAN Chan 73 N32°30.45′

W90°10.06′ 253° 44.7 NM to fld. 360/5E.

**SAVRY NDB (MHW/LOM)** 344 TV N32°14.72′ W91°01.55′ 357° 6.4 NM to fld. NOTAM FILE DRI.

ILS 109.7 I-TVR Rwy 36. LOM SAVRY NDB. LOC only.

TENSAS PARISH (See ST JOSEPH)

THACKERS (See OIL CITY)

THE RED RIVER (See COUSHATTA)

**THIBODAUX MUNI** (L83) 3 S UTC-6(-5DT) N29°44.87′ W90°49.97′

9 B S2 FUEL 100LL NOTAM FILE DRI RWY 08-26: H2999X75 (ASPH) S-6 MIRL

RWY 08: Trees. RWY 26: Thid dspicd 90'. Trees.

AIRPORT REMARKS: Attended 1400–2300Z‡. Rwy 26 thld dsplcd for day ops only. Dsplcd thld markings yellow. Rwy 08–26 ponding along rwy edges during wet conditions. MIRL Rwy 08–26 preset low ints, to increase ints ACTIVATE—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

R NEW ORLEANS APP/DEP CON 118.9

RADIO AIDS TO NAVIGATION: NOTAM FILE DRI.

TIBBY (L) VORTAC 112.0 TBD Chan 57 N29°39.86′ W90°49.75′ 356° 5.0 NM to fld. 10/2E.

**TIBBY** N29°39.86′ W90°49.75′ NOTAM FILE DRI.

(L) VORTAC 112.0 TBD Chan 57 356° 5.0 NM to Thibodaux Muni. 10/2E.

NEW ORLEANS H-7D, L-21B, 22F

**NEW ORLEANS** 

IAP

L-21B. 22F. GOMC

TIBBY N29°39.86′ W90°49.75′

RCO 122.1R 112.0T (DE RIDDER RADIO)

NEW ORLEANS L-22F

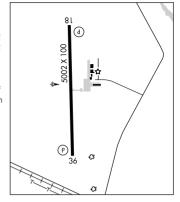
UNION PARISH (See FARMERVILLE)

**VERMILLION** N28°34.56′ W92°27.67′

RCO 122.6 (DE RIDDER RADIO) OTS indef.

NEW ORLEANS

L-21B



MEMPHIS

ΙΔΡ

H-6J. L-18F

VERMILLION 26 (VNP) N29°28.00′ W92°22.12′

AWNS-3 120 225

L-21B. 22E. GOMW

VICKSBURG TALLULAH RGNL (See TALLULAH/VICKSBURG)

#### VIDALIA

CONCORDIA PARISH (ØR4) 4 W UTC-6(-5DT) N31°33.72′ W91°30.39′

HOUSTON

54 B FUEL 100LL, MOGAS NOTAM FILE DRI RWY 14-32: H3700X75 (ASPH) S-12 MIRI

RWY 14: REIL. PAPI(P2L)-GA 3.0° TCH 50'. Trees. RWY 32: REIL. PAPI(P2L)-GA 3.0° TCH 50'

1\_22F

AIRPORT REMARKS: Attended Mon-Sat 1400-2300Z‡. 100LL avbl 24 hrs self svc with credit card. 400' twr 2 miles north of approach end of Rwy 14. West twy and apron have major longitudinal and transverse cracking with grass in cracks. MIRL Rwy 14-32, REIL Rwy 14 and Rwy 32 preset low ints dusk to dawn, to incr ints ACTIVATE—CTAF. COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE AEX.

ALEXANDRIA (H) VORTACW 116.1 AEX Chan 108 N31°15.40′ W92°30.06′ 067° 54 2 NM to fld 80/3E. 2AWIH

**VIVIAN** (3F4) 2 SW UTC-6(-5DT) N32°51.68′ W94°00.61′

B S4 NOTAM FILE DRI

S-12 MIRL 0.4% up E RWY 09-27: H2998X75 (ASPH)

RWY 09: REIL. PAPI(P2L)-GA 3.0° TCH 52'. Tree.

RWY 27. Trees

AIRPORT REMARKS: Attended Mon-Sat dawn-dusk. MIRL Rwy 09-27 and REIL Rwy 09 preset low ints dusk-dawn, to incr ints ACTIVATE-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

(R) SHREVEPORT APP/DEP CON 119.9 (1200-0600Z±) 121.4 (0600-12007+)

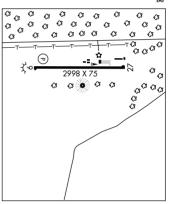
GCO 135.075 (BARKSDALE APCH CTL and FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE SHV.

BELCHER (H) VORTACW 117.4 EIC Chan 121 N32°46.28' 291° 11.5 NM to fld. 190/7E. W93°48 60'

VIV N32°51.58′ W94°00.61′ NDR (MHW) 284 at fld NOTAM FILE DRI. Unmonitored.

MEMPHIS L-13D, 17E IAP



WELSH (6R1) 0 NW UTC-6(-5DT) N30°14.51′ W92°49.76′

18 B S4 FUEL 100LL NOTAM FILE DRI

иптенин L-21B, 22E, GOMW IAP

RWY 07-25: H2700X50 (ASPH) S-6 MIRL

RWY 07: Trees. RWY 25: SAVASI(S2L)-GA 4.0° TCH 23'. Trees.

RWY 09-27: 2200X150 (TURF)

RWY 27: Trees.

AIRPORT REMARKS: Attended irregularly. Jet A fuel available on emergency request only, call 318-734-2382. Rwy 07-25 has some small cracks.

COMMUNICATIONS: CTAF/UNICOM 122.8

(R) LAKE CHARLES APP/DEP CON 119.8 (1200-0400Z‡)

R HOUSTON CENTER APP/DEP CON 124.7 (0400-1200Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE LCH.

LAKE CHARLES (H) VORTACW 113.4 LCH Chan 81 N30°08.49′ W93°06.33′ 060° 15.6 NM to fld. 20/7E.

WHITE LAKE N29°39.79′ W92°22.42′ NOTAM FILE DRI.

иптенин

Chris Crusta Mem. 40/4E.

(L) VORW/DME 110.4 LLA Chan 41 035° 24.0 NM to Abbeville

H-7D, L-21B, 22E, GOMC, GOMW

#### WINNFIELD

DAVID G. JOYCE (ØR5) 3 NW UTC-6(-5DT) N31°57.82′ W92°39.62′

146 B NOTAM FILE DRI

RWY 09-27: H3002X100 (ASPH) S-4 MIRL 0.9% up W

RWY 09: REIL. PAPI(P2L)—GA 3.0° TCH 45'. Trees.

RWY 27: REIL. PAPI(P2L)-GA 3.45° TCH 62'. Tree.

AIRPORT REMARKS: Attended Mon-Fri 1400-2200Z‡. Rwy 09 and Rwy 27 REIL OTS indef. MIRL Rwy 09-27 and REIL Rwy 09 and Rwy 27 preset low ints dusk to dawn, to incr ints ACTIVATE—CTAF.

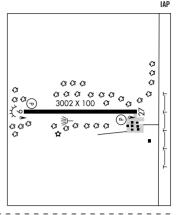
COMMUNICATIONS: CTAF/UNICOM 122.7

R POLK APP/DEP CON 125.4

RADIO AIDS TO NAVIGATION: NOTAM FILE AEX.

**SAWMILL (H) VOR/DME** 113.75 SWB Chan 84(Y) N31°58.39′ W92°40.63′ at fld. 164/2E.

WINNFIELD NDB (MHW) 402 IFJ N31°57.78′ W92°39.43′ at fld. NOTAM FILE DRI.



иптенин

L-22E

WINN PARISH MEDICAL CENTER HELIPORT (ØL6) O W UTC-6(-5DT) N31°55.39′ W92°38.74′ HOUST

140 B NOTAM FILE DRI

HELIPAD H1: H50X50 (CONC) Tree.

HELIPORT REMARKS: Attended continuously. Helipad H1 perimeter lgts.

COMMUNICATIONS: CTAF 122.9

### WINN PARISH MEDICAL CENTER HELIPORT (See WINNFIELD)

WINNSBORO MUNI (F89) 1 E UTC-6(-5DT) N32°09.18' W91°41.91'

76 B S2 **FUEL** 100LL NOTAM FILE DRI

RWY 18-36: H3000X75 (ASPH) S-11 MIRL

RWY 18: SAVASI(S2L)-GA 4.0° TCH 20'. Trees.

RWY 36: REIL. SAVASI(S2L)—GA 4.0° TCH 20'.

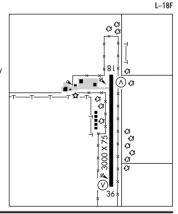
AIRPORT REMARKS: Attended Mon-Fri 1400–2300Z‡. Arpt attended Sat-Sun on call. Fuel avbl 24 hrs self serve with credit card.

Heavy agricultural aircraft opr June–Oct. Rwy 18–36 trees W of rwy obstruct view of opr acft. Rwy 36 REIL OTS indef. Rotating bcn OTS indef. Rwy 36 SAVASI OTS indef. ACTIVATE MIRL Rwy 18–36 and REIL Rwy 36—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE MLU.

MONROE (L) VORTACW 117.2 MLU Chan 119 N32°31.01′ W92°02.16′ 139° 27.7 NM to fld. 80/3E. HIWAS.



WOODWORTH (1R4) 2 S UTC-6(-5DT) N31°07.58′ W92°30.08′

HOUSTON L-21B, 22E

MEMPHIS

140 B S4 NOTAM FILE DRI

RWY 01-19: H3100X75 (ASPH) S-12 MIRL RWY 01: SAVASI(S2R)—GA 4.0° TCH 20'. Trees.

RWY 19: SAVASI(S2R)—GA 4.0° TCH 20'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z‡. Rwy 01-19 large cracks in pavement mostly filled with sealant. SAVASI Rwy 01 and Rwy 19 OTS indef. Windsock Ights OTS indef. ACTIVATE MIRL Rwy 01-19—122.8.

**COMMUNICATIONS: CTAF 122.9** 

RADIO AIDS TO NAVIGATION: NOTAM FILE AEX.

ALEXANDRIA (H) VORTACW 116.1 AEX Chan 108 N31°15.40′ W92°30.06′ 177° 7.8 NM to fld. 80/3E. HIWAS.

#### PROHIBITED AREA P-49. CRAWFORD. TEXAS

In response to a request from the United States Secret Service, the FAA has established a prohibited area over President George W. Bush's ranch in Crawford, Texas. The prohibited area extends from the SFC up to 5,000' MSL within a 3 NMR of lat. N31°34'45", long. W97°32'00" (ACT242R/15).

# Bomb Disposal Area McAlester, Oklahoma Vicinity

Bomb disposal area, one NM radius, MLC  $240^{\circ}/006$ , SFC to 2000 AGL. Times of use: Daily, 30 min after SR to 30 min before SS. Avoidance advised. For further information contact McAlester AFSS.

#### **AEROBATIC PRACTICE AREA**

### Coushatta, LA, Red River Airport (OR7)

Aerobatic practice will be conducted at Red River Airport between the surface and 5,000 feet AGL within the boundaries of the airspace bounded on the west by the western edge of Rwy 17/35, extending northward and southward to the respective airport boundaries, extending eastward for 1.5 miles to an imaginary line connecting to the northeast and southeast corners, to create the practice area. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

#### Crowley, LA, Le Gros Airport (3R2)

Aerobatic practice will be conducted at Le Gros Airport within the area defined as a semicircle extending southward from its diameter centered on the north end of the north/south taxiway at its intersection with the south edge of the east/west taxiway extending eastward 6,000 feet and westward 6,000 feet from the surface to 4,500 feet MSL. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

#### Farmerville, LA, Union Parish Airport (F87)

Aerobatic practice will be conducted within a 2 NM radius of the Union Parish Airport, SFC to 4,000 feet MSL. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

# Jennings, LA, Jennings Airport (3R7)

Aerobatic practice will be conducted centered from 1 NM northwest of Jennings Airport, within an approx. 2.5 NM radius, 500 feet to 4,000 feet MSL. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

#### Opelousas, LA, St. Landry Parish Airport (OPL)

Aerobatic practice will be conducted at St. Landry Parish Airport within 1 NM radius of the Lafayette VORTAC, LFT343022, SFC to 4,000 feet MSL. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

#### Springhill Airport (SPH), Springhill, LA

Aerobatic practice conducted at the Springhill (SPH) Airport, from SFC to 5000 MSL, within the area defined as having its western boundary along the western edge of Rwy 18/36, extending northward 1000 feet beyond the north end of the runway; then eastward 150 feet to the eastern boundary; then southward parallel to the runway to a line which runs along the southern edge of Rwy 18/36, extending from its western edge 1500 feet to a point where it intersects the eastern boundary. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information, contact DeRidder AFSS on 1–800–WX–BRIEF (992–7433).

#### Sulphur, LA, Southland Field (UXL)

Aerobatic practice will be conducted at West Calcasieu Airport, Southland Field within a 2 NM radius of the Lake Charles VORTAC, LCH261014, SFC to 4,000 feet AGL. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information Flight Services at 1–800–WX–BRIEF (992–7433).

#### Bristow, OK, Jones Memorial Airport (3F7)

Aerobatic practice will be conducted within 2 NM radius of Jones Memorial Airport (3F7), SFC to 6,000 feet AGL, SR-SS. For further information contact Flight Services at 1–800–WX-BRIEF (992–7433).

#### Cookson, OK, Tenkiller Lake Airpark (44M)

Aerobatic practice will be conducted at Tenkiller Airpark in a 3,000 foot box, beginning at the centerline of the approach end of RY23 and extending 400 feet beyond the departure end of RY23, thence extending 3,000 feet AGL. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

CONTINUED ON NEXT PAGE

#### SPECIAL NOTICES

#### CONTINUED FROM PRECEDING PAGE

#### Ketchum, OK, South Grand Lake Regional Airport (1K8)

Aerobatic practice will be conducted within 1 NM radius of the South Grand Lake Regional Airport (1K8), SFC to 4,500 feet AGL. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

# Muskogee, OK, Davis Field (MKO)

Aerobatic practice will be conducted within 1.25 NM radius of Davis Field, Muskogee, OK (MKO), SFC to 4,500 feet AGL. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

### Nowata, OK, Nowata Airport (H66)

Aerobatic practice will be conducted centered from 3 NM northwest of the Nowata Airport (H66), SFC to 3,000 feet AGL. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

### Tulsa. OK

Aerobatic practice will be conducted within 3 NM radius of TUL350022, SFC to 5,000 feet AGL. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

### Brenham, TX, Brenham Muni Airport (11R)

Aerobatic practice will be conducted within 2 NM radius of the Brenham Muni Airport (11R), SFC to 4,500 feet MSL. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

#### Celina, TX, Four Winds Ranch (1TS9)

Aerobatic flight activity will be conducted at Four Winds Ranch, bound on the north by County Road 102, on the south by an imaginary line parallel to and 800 feet south of County Road 134, on the west by an imaginary line just east of the three lakes, and on the east by a tree line, SFC to 4,500 feet MSL, SR-SS. For further information contact Flight Services at 1–800–WX-BRIEF (992–7433).

#### Edna, TX, Jackson County Airport (26R)

Aerobatic practice will be conducted within a 1 NM radius of the Jackson County Airport (26R), from SFC to 1,500 feet AGL. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

#### Fort Worth, TX, Naval Air Station JRB (NFW)

Aerobatic practice will be conducted centered from 1 NM East and 3 NM West, North and South of NAS JRB Forth Worth (NFW) runway 17/35, from SFC to 6,000 feet MSL. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

#### Georgetown (GTU), TX

Aerobatic practice will be conducted within 1 NM radius of CWK342019, SFC to 4000' AGL. The practice area is for waiver holders only. Pilots should use caution when operating within this area. Pilots should use caution within this area. For further information, contact San Angelo AFSS on 1–325–223–6041.

#### Graford, TX, Possum Kingdom (F35)

Aerobatic practice will be conducted within 1 NM radius of MQP289929 3.5 NM west of Possum Kingdom Airport, SFC to 5,000 feet MSL. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

#### Grayson City Arpt, Denison, TX (GYI)

Aerobatic flight activity will be conducted within a 2 NM radius of the BYP290024.4, SFC to 5700 feet MSL, SR-SS daily. The practice area is for waiver holders only. Pilots should use caution when operating in this area. For further information contact Fort Worth AFSS on 1–800–992–7433.

#### Hondo Muni (HDO), Hondo, TX

Aerobatic flight activity will be conducted in a 2 NM radius of Hondo Muni Airport. Flights will occur SR-SS, SFC to 3,500 AGL. Pilots should use caution when operating within this area. For further information, contact San Angelo AFSS, 325–223–6041.

#### Huber Airpark, Sequin, TX

Aerobatic flight activity will be conducted within an area 3300 feet by 3300 feet located on the SAT 089/25. Flights will occur SR-SS Sat/Sun, SFC to 4600 MSL. Pilots should use caution when operating in this area. For further information contact San Angelo AFSS on 1–325–223–6041.

#### **CONTINUED ON NEXT PAGE**

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#### LaGrange, TX, Fayette Regional Air Center (3T5)

Aerobatic flight activity will be conducted within a 2 NM radius of the Fayette Regional Airport (3T5), from 900 feet MSL up to and including 4,000 feet MSL. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

## Lubbock, TX, Biggin Hill Strip (TA67)

Aerobatic flight activity will be conducted within 0.5 NM radius of the LBB280008.3/TA67, SFC to 6,500 MSL, SR-SS. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

#### Navasota, TX

Glider operations will be conducted within a 5 NM radius of the TNV VOR 130/007, from SFC to 8000 feet MSL, SR-SS. Pilots should use caution when operating in this area. For further information, contact Montgomery County AFSS on 866-689-5992.

### O'Brien Airpark, Waxahachie, TX

Aerobatic flight practice will be conducted within 1  $^{1}$ /2 NM radius of TTT 148/024 from SFC to 3500 MSL. Pilots should use caution when operating within this area. For further information contact Fort Worth AFSS on 1–800–992–7433.

# Olney, TX, Olney Muni (ONY)

Aerobatic flight activity will be conducted within a 4,000 square foot area located over the Olney Muni airport property commencing from the west side of Rwy 17–35, SFC to 3,500 AGL. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

#### Skywest Inc. Airport, Midland, TX

Aerobatic flight activity will be conducted within a 3300' by 3300' square box, located ½4 mile south southeast of the approach end of Rwy 34 at Skywest airport, Midland, Texas. Flights will occur between sunrise and sunset, from the surface to 6,500 feet MSL.

### Slidell, TX, Akroville Airport (XA68)

Aerobatic practice will be conducted within 1.5 NM radius of the UKW108026, SFC to 4,000 feet MSL, SR-SS. For further information contact Flight Services at 1–800–WX-BRIEF (992–7433).

#### Songbird Airport, Friendswood, Texas

Aerobatic flight activity will be conducted within a 2 NM radius of the Houston Hobby VOR 185° radial at the 18 mile DME fix. Flight will occur from sunrise to sunset, from the surface to 3500 feet AGL. Pilots should use caution when operating within this area. For further information contact Montgomery County AFSS, 866–689–5992.

#### Waller, TX, Simaron Ranch Airport, (9TS3)

Aerobatic practice will be conducted within 1 NM radius of TNV130007.5/3.8 NNE 9TS3, 800 feet MSL to 3,500 feet MSL. SR-SS. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

#### Wichita Falls, TX, Kickapoo Downtown Airport (CWC)

Aerobatic practice will be conducted within 1.5 NM radius of the SPS136009.2, SFC to 4,000 feet MSL, SR-SS. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

#### Wichita Falls, TX, Sheppard AFB (SPS)

Aerobatic practice will be conducted within a 1.5 NM radius of the SPS200007, SFC to 4,500 feet MSL. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

#### Wichita Falls, TX, Wichita Valley Airport (F14)

Aerobatic practice will be conducted within a 1 NM radius of the SPS190003, SFC to 4,000 feet AGL. The activation of this practice area is only authorized when 80th Flying Training Wing Flying operations are not active at Sheppard Air Force Base. The practice area is for waiver holders only. Pilots should use caution when operating within this area. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

# MODEL AIRCRAFT ACTIVITY Haskell, OK (2K9)

Model rocket activity will be conducted within a 1 NM radius of GNP092008, SFC to 9,000 feet MSL, SR-SS. For further information contact Flight Services at 1–800–WX-BRIEF (992–7433).

### Oklahoma City, OK

Model rocket activity will be conducted within a 1 NM radius of IRW270023, SFC to 6,400 feet MSL, SR-SS. For further information, contact Flight Services at 1–800–992–7433.

#### Fort Stockton-Pecos Co (FST), TX

Model rocket activity will be conducted within a 2.6 NM radius of FST 146/014, SFC to 20,000 MSL, SR–SS. For further information, contact San Angelo AFSS on 1–325–223–6041. Model rocket activity will be conducted within a 2 NM radius of FST 212/9, SFC to 23,100 MSL, SR–SS. For further information, contact San Angelo AFSS on 1–325–223–6041.

#### Kileen (ILE), Texas, Vicinity

Model airplane activity conducted 1 NM radius ILE 138R/006NM, 10008 AGL and below. Intermittent launches daily. For further information, contact San Angelo AFSS on 1–325–223–6041.

### Lake Jackson TX (LHB)

Model rocket activity will be conducted within a 1 NM radius of the Hearne Muni Airport (LHB) or the CLL 319/018 SFC to 12,500' MSL, SR-SS. For further information, contact Flight Services at 1–800–992–7433.

#### Nacogdoches, TX (OCH)

Model Rocket activity will be conducted within a 1 NM radius of the Mangham Rgnl Arpt (OCH) 045018, SFC to 3,000 feet MSL, SR-SS. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

#### Wills Point, TX (76F)

Model rocket activity will be conducted within a 5 NM radius of TTT100051, SFC to 24,000 feet MSL, SR-SS. For further information, contact Flight Services at 1–800–992–7433.

# Waco Rgnl, TX (ACT)

Model rocket activity will be conducted within a 5 NM radius of ACT 131014, SFC to 24,000 feet MSL, SR-SS. For further information, contact Flight Services at 1–800–992–7433.

# UNMANNED AIRCRAFT SYSTEM (UAS) Hondo, TX

Unmanned Aircraft System (UAS) activity will be conducted within 2 NM radius of HDO 220/010, SFC to 1,700' MSL 10800–1600 LCL, Mon-Fri, through April 16, 2010. For further information, contact Fort Worth AFSS on 1–800–WX-BRIEF.

# DALLAS-FORT WORTH, TX, DALLAS/FORT WORTH INTL AIRPORT (DFW) NOISE ABATEMENT PROCEDURES

Successive or simultaneous departures from Runways 17R, 17C, 18R, 18L, 35L, 35C, 36L and 36R are authorized, with course divergence beginning within 5 miles from the departure end of parallel runways, due to noise abatement restrictions.

# LASER LIGHT DEMONSTRATIONS Biloxi, Mississippi

A permanent Laser Light Demonstration will be conducted at Casino Magic, located in Biloxi, Mississippi, on Gulfport VORTAC 096° Radial, 12 NM Lat 30°23″N/Long 88°51″W, nightly from dusk until 2 AM. Laser light beam is not expected to elevate above the horizon from a 120 foot high platform. Laser light beam may be injurious to eyes if viewed within 1 nautical mile laterally of the light source. Cockpit illumination—flash blindness may occur beyond these distances.

# Biloxi, Mississippi

A permanent Laser Light Demonstration will be conducted at Palace Casino, located in Biloxi, Mississippi, on the Gulfport VORTAC 094° Radial, 12 NM Lat 30°23"N/Long 88°51"W, nightly 8:00 P.M. until 4:00 A.M. Laser light beam is not expected to elevate above the horizon from a 70 foot high platform. Laser light beam may be injurious to eyes if viewed within 1 nautical mile laterally of the light source. Cockpit illumination—flash blindness may occur beyond these distances.

#### Robinsonville, Mississippi

Laser light activity will be conducted at the Grand Casino, Robinsonville, MS, N34°52′22″/W90°17′40″ MEM VOR 243R/18.3 NM, from 0000 to 0700 UTC daily. Laser light beams may be injurious to eyes within 300 feet vertically and 21,000 feet laterally. Flash blindness or cockpit illumination may occur beyond these distances.

# Vicksburg, Mississippi

A permanent Laser Light Demonstration will be conducted at Harrah's Casino Hotel, Vicksburg, MS, (JAN VORTAC 255° Radial, 38 Nautical Miles, Latitude 32°21″N, Longitude 90°53″W), nightly from sunset until 12:00 A.M. Laser Light beam may be injurious to eyes if viewed within 1000 feet vertically and/or 3000 feet laterally of the light source. Cockpit illumination—flash blindness may occur beyond these distances.

# DFW INTERNATIONAL AIRPORT LAND AND HOLD SHORT OPERATIONS

DFW is authorized to instruct aircraft to land on a runway and hold short of an intersecting taxiway while aircraft/vehicles simultaneously taxi across the runway at beyond the hold–short point for the following runway/taxiway combinations.

18R	AND	TAXIWAY B	10,100 feet
17C	AND	TAXIWAY B	10,460 feet
35C	AND	TAXIWAY EJ	9,050 feet
36L	AND	TAXIWAY Z	10.650 feet

These procedures are governed by the following conditions and limitations:

- a. The tailwind on the hold short runway shall be calm (less than 3 knots).
- b. A statement that simultaneous landings and runway crossings are being conducted shall be included on the ATIS.
- c. LAHSO wet runway operations are authorized provided pilot reported braking action is not less than good, the runway is not classified as contaminated by the airport operator, and the hold short position lights are operational and "on".
  - d. The weather conditions must be at or greater than ceiling 1,000 feet, and visibility 3 miles.
- e. Traffic information shall be exchanged and a readback shall be obtained from the landing aircraft with a LAHSO clearance. An acknowledgment shall be received from the crossing aircraft/vehicle.
  - f. Operations beyond the hold short point except for runway crossings are not authorized during LAHSO.
- g. Hold short markings, taxiway identification signs, and in–pavement lights will be used to identify the hold–short points. The lighting system consists of six or seven in–pavement white lights, flashing/pulsing simultaneously, arranged in a line across the landing runway perpendicular to the runway centerline.

The safety and operation of an aircraft remain the responsibility of the pilot. A pilot must inform air traffic control if the full length of the runway or another runway is desired. The runway distance from the landing threshold to the hold short point will be provided to the pilot upon request.

h. Vertical guidance required for LAHSO (Glideslope, VASI, PAPI).

# INTERSECTION DEPARTURES DURING PERIODS OF DARKNESS DALLAS-FORT WORTH INTERNATIONAL AIRPORT (DFW) DALLAS-FORTH WORTH, TEXAS

Dallas-Fort Worth Airport Traffic Control Tower has been granted a waiver to the guideline that prohibits the control tower from taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise.

This waiver allows the tower to taxi the aircraft into "position and hold" during period of darkness, at the intersections listed below.

Runway 17R at Taxiway Yankee Runways 17R/C and 18R/L at Taxiway Zulu Runway 18L at Taxiway Yankee Runways 35L/C and 36L/R at Taxiway Alpha Runways 35L/C and 36L/R at Taxiway Bravo Runway 13L at Taxiway Papa Runway 31L at Taxiway "A5"

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible from the tower. When the provisions of this waiver are being exercised, the affected runways shall be used for departures only. Simultaneous taxi into position and hold are not authorized on the same runway. Intersection departures will continue to be utilized at other locations between sunset and sunrise. However, aircraft cannot be taxied into "position and hold" prior to takeoff clearance.

# SPECIAL NORTH ATLANTIC, CARIBBEAN AND PACIFIC AREA COMMUNICATIONS

VHF air-to-air frequencies enable aircraft engaged in flights over remote and oceanic areas out of range of VHF ground stations to exchange necessary operational information and to facilitate the resolution of operational problems.

Frequencies have been designated as follows:

North Atlantic area: 123.45 MHz
Caribbean area: 123.45 MHz
Pacific area: 123.45 MHz

# ALBUQUERQUE ARTCC VFR Services South of El Paso, Texas

VFR radar advisory service and merging target service available to transponder equipped aircraft above 10,000 feet MSL from a point 75 miles south of El Paso, Texas, to the U.S./Mexican border.

# HOUSTON ARTCC Secondary-Only Radar in the Vicinity of Lufkin, Texas

The Air Traffic Control Beacon Interrogator—6 (ATCBI—6) located at the Angelina County Airport (LFK), Lufkin, Texas, is the only source of radar data within an approximate 50 NM radius of LFK. This is a secondary radar system; therefore radar services are available on transponder equipped aircraft only.

# CAUTION—HIGH DENSITY STUDENT FLYING Little Rock AFB, AR

High density student flying training in the vicinity of Little Rock AFB and on low level Slow Routes (SR) within Arkansas; 0600–0200 Mon–Fri, occasional weekend. Extensive use of All American Drop Zone, Little Rock VORTAC 332° radial 15.0 NM, and Blackjack Drop Zone, Little Rock VORTAC 009° radial 33.0 NM; 0600–0200, Mon–Fri, occasional weekend. Drop Zones are used for personnel and cargo, including IMC (AWDS) drops. For further information, contact Little Rock AFB, Base Operations, on 1–501–988–6125.

# CAUTION—VERTICAL LIGHTS ON BUILDING Downtown Tulsa, Oklahoma

Approximately ten miles southwest of Tulsa International Airport in the area of downtown Tulsa, four 4,000-watt xenon lights are mounted on each corner of the roof of a 40-story building. Illumination is vertical and hours of use are daily, dusk to midnight.

#### **BAYOU SAUVAGE NATIONAL WILDLIFE REFUGE, LA**

Request aircraft remain at or above 2,000 ft in the vicinity of Bayou Sauvage National Wildlife Refuge bounded by Lake Pontchartrain to the Northwest and Northeast, Lake Borgue to the Southeast and New Orleans to the Southwest.

# CAUTION-LARGE CONCENTRATION OF BATS San Antonio, Texas, Vicinity

From April to October large concentration of bats are observed in the vicinity of Braken Cave located 5.5 miles east of SAT VORTAC. Most activity is observed around sunset and sunrise at altitudes up to 10,000 feet.

#### **U.S. SPECIAL CUSTOMS REQUIREMENT**

Air Commerce Regulations of the Treasury Department's Customs Service require all private aircraft arriving in the U.S. from a foreign place in the Western Hemisphere, (a) south of 33 degrees north latitude which cross into the U.S. over a point on the U.S./Mexican border between 97 and 120 degrees west longitude, or (b) south of 31 degrees north latitude which enter the U.S. via the Gulf of Mexico and Atlantic Coasts, to provide notice of intended arrival to the Customs Service at least one hour prior to crossing the U.S./Mexican border or the U.S. coastline. This notice may be provided by: (1) radio through an appropriate FAA Flight Service Station, (2) normal FAA flight plan notification procedures (a flight plan filed in Mexico does not meet this requirement due to unreliable relay of data), or (3) directly to the District Director of Customs or other Customs officer at place of first intended landing. Unless an exemption has been granted by Customs, private aircraft are required to make first landing in the U.S. at one of the following designated airports nearest to the point of border or coastline crossing:

Brownsville/South Padre Island International, Corpus Christi International, Del Rio International, El Paso International, Laredo International, Maverick County Memorial International, McAllen Miller International, Presidio—Lely International, Southwest Texas Regional, or William P. Hobby Airport in Texas; Calexico International, or Brown Field Municipal in California; Bisbee Douglas International, Nogales International, Tuscon International, or Yuma MCAS/Yuma International in Arizona; Las Cruces Intl in New Mexico; Lakefront or Louis Armstrong New Orleans Intl in Louisiana; Fort Lauderdale—Executive, Fort Lauderdale—Hollywood International, Key West International, Miami International, Opa—Locka Executive Airport, Palm Beach International, St. Lucie County International, or Tampa International in Florida.

#### CAUTION-HIGH DENSITY AIR TRAFFIC AREA

Heavy helicopter and seaplane traffic exists over the Gulf of Mexico and adjacent onshore areas. Thousands of operations per month occur in this area in support of oil drilling and exploration.

Itinerant pilots traversing this area should familiarize themselves with offshore operating practices and frequencies through contact with the pertinent Flight Standards District Office (FSDO) or Flight Service Station.

#### **MILITARY TRAINING ROUTES**

The DOD Flight Information Publication AP/1B provides textual and graphic descriptions and operating instructions for all military training routes (IR, VR, SR) and refueling tracks/anchors. Complete and more comprehensive information relative to policy and procedures for IRs and VRs is published in FAA Handbook 7610.4 (Special Military Operations) which is agreed to by the DOD and therefore directive for all military flight operations. The AP/1B is the official source of route data for military users.

#### **CIVIL USE OF MILITARY FIELDS:**

U.S. Army, Air Force, Navy and Coast Guard Fields are open to civil fliers only in emergency or with prior permission.

Army Installations, prior permission is required from the Commanding Officer of the installation.

For Air Force installations, prior permission should be requested at least 30 days prior to first intended landing from either Headquarters USAF (PRPOC) or the Commander of the installation concerned (who has authority to approve landing rights for certain categories of civil aircraft). For use of more than one Air Force installation, requests should be forwarded direct to Hq USAF (PRPOC), Washington, D.C. 20330.

Use of USAF installations must be specifically justified.

For Navy and Marine Corps installations prior permission should be requested at least 30 days prior to first intended landing. An Aviation Facility License must be approved and executed by the Navy prior to any landing by civil aircraft.

Forms and further information may be obtained from the nearest U.S. Navy or Marine Corps aviation activity.

For Coast Guard fields prior permission should be requested from the Commandant, U.S. Coast Guard via the Commanding Officer of the field.

When instrument approaches are conducted by civil aircraft at military airports, they shall be conducted in accordance with the procedures and minimums approved by the military agency having jurisdiction over the airport.

#### AIRCRAFT LANDING RESTRICTIONS

Landing of aircraft at locations other than public use airports may be a violation of Federal or local law. All land and water areas are owned or controlled by private individuals or organizations, states, cities, local governments, or U.S. Government agencies. Except in emergency, prior permission should be obtained before landing at any location that is not a designated public use airport or seaplane base.

Landing of aircraft is prohibited on lands or waters administered by the National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, and on many areas controlled by the U.S. Army Corps of Engineers, unless prior authorization is obtained from the respective agency.

#### **FEDERAL AVIATION REGULATION 91.713**

The provisions of FAR 91.713 will apply as follows:

Air traffic clearances to aircraft of Cuban registry not engaged in scheduled International Air Service in U.S. airspace will require that the flight plan be filed with appropriate authorities at least five days prior to the proposed departure time. Route changes while en route will normally not be authorized. The procedures set forth herein do not apply at this time to overflights by aircraft of Cuban registry engaged in scheduled International Air Service.

# **CONTROLLED FIRING**

Camden, Harrell Fld, AR

6E Camden 2 NM radius surface-005 avoidance advised Mon-Fri daylight hours.

El Dorado, South Arkansas Rgnl

ELD 021/024 2 NM radius surface—500 AGL avoidance advised Mon-Fri daylight hours.

Texarkana Rgnl Webb Fld, AR.

.25 NM radius TXK 223010 2000/blo Mon-Thu. 1900-0500Z‡

.5 NM radius TXK 240014 1000/blo Mon-Sat SR-SS.

# Camp Bullis Training Site Controlled Firing Area (CTA) Camp Bullis, TX

#### 1. CFA Description:

a. Boundaries: Beginning at

Lat. 29°41′10.07′N., Long. 98°31′41.40″W. to Lat. 29°40′25.05″N., Long. 98°33′57.40″W. to Lat. 29°39′20.22″N., Long. 98°34′44.18″W. to Lat. 29°38′03.77″N., Long. 98°34′13.26″W. to Lat. 29°37′53.94″N., Long. 98°33′46.90″W. to Lat. 29°37′53.94″N., Long. 98°33′46.90″W. to Lat. 29°37′53.94″N., Long. 98°31′455.12″M. to 12°37′457″N. Long. 98°31′455.12″M. to 12°37′457″N. Long. 98°31′457″M. to 12°37′4577″N. Long. 98°31′4577″N. Long. 98°31′457″N. Long. 98°31′457″NN. Long. 98°31′457″NN. Long. 98°31′457″NN.

Lat. 29°38′36.77″N., Long. 98°31′55.13″W. to

Lat.  $29^{\circ}39'48.07''N.$ , Long.  $98^{\circ}31'06.07''W.$  to

Point of beginning.

- b. Altitudes: Surface to 3,000 feet AGL.
- c. Times of use: Approximately 70 times per year. Utilization will normally be 7 days per week, 0700–2300 local time. Give prior notice of all activities to the San Angelo Automated Flight Service Station (AFSS). Notify the AFSS when activities are terminated each day.

#### 2. Activities:

- a. M203 40mm Grenade Launcher, HE/Target Practice Training (TPT) rounds, average use 50 times per year.
- b. Heavy Demolitions Range, types of explosives will vary, but all are conventional (no nuclear, biological, or chemical), 20 times per year.
  - c. Emergency destruction of illegal explosive devices will be unscheduled due to the nature of the event.
- 3. Using Agency: U.S. Army, Commander, Camp Bullis Training Site, Camp Bullis, TX
- 4. Effective date: The effective date is February 1, 2004. Biannual approval of the CFA is automatic upon receipt of a biannual status report from the Department of the Army Regional Representative containing a statement that the activities for which the area was established have not changed.
- 5. Conditions, Operating Limitations, and Safety Precautions:
- a. Camp Bullis Training Site will maintain observers with direct communications to the Range Towers located in positions that allow for sufficient visual surveillance of the entire area.
  - b. Firing will cease upon observation of low-flying aircraft.
  - c. The ceiling shall be at least 1,000 feet above the maximum ordinate of projectiles and/or debris.
- d. Visibility shall be sufficient to maintain visual surveillance of the entire CFA plus a distance of 5 statute miles beyond the CFA in all directions.
- e. All user responsibilities, precautionary measures, and surveillance requirements listed in FAA Order 7400.2 shall be complied with.
  - f. All activities will be contained within the designated impact area at Camp Bullis.
- 6. With the exception of the emergency destruction of unsafe explosive devices, the following information shall be filed with the San Angelo AFSS in sufficient time to permit a NOTAM to be transmitted at least 2 hours prior to scheduled operations:
  - a. Location of the CFA.
  - b. Time of use.
  - c. Activity to be conducted
  - d. Maximum altitudes.
  - e. User.
- 7. Any violation of the conditions, as outlined above, shall be the basis for the FAA to withdraw authorization of the CFA.

# CONTROLLED FIRING AREA CAMP STANLEY, SAN ANTONIO, TEXAS

The Military has established a controlled firing area bordered by the following geographic coordinates: beginning at N29°40′37″/W98°37′53″; thence to N29°41′17″/W98°35′49″; to N29°43′51″/W98°35′50″; to N29°43′51″/W98°37′23″; to point of beginning. Operating SR–SS daily, SFC to 1,500 feet AGL (2,500 feet MSL). For further information contact San Angelo AFSS on 1–325–223–6041.

#### **CONTINUOUS POWER FACILITIES**

In order to insure that a basic ATC system remains in operation despite an areawide or catastrophic commercial power failure, key equipment and certain airports have been designated to provide a network of facilities whose operational capability can be utilized independent of any commercial power supply.

In addition to those facilities comprising the basic ATC system, the following approach and lighting aids have been included in this program for a selected runway.

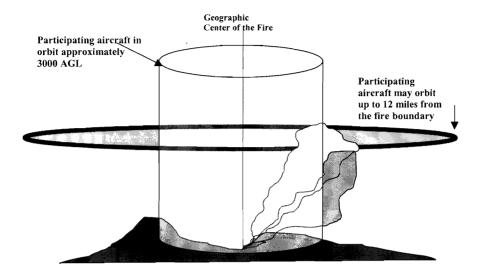
- 1. ILS (Localizer, Glide Slope, COMLO, Inner, Middle and Outer Markers)
- 2. Wind Measuring Capability
- 3. Approach Light System (ALS) or Short ALS (SALS)
- 4. Ceiling Measuring Capability
- 5. Touchdown Zone Lighting (TDZL)
- 6. Centerline Lighting (CL)
- 7. Runway Visual Range (RVR)
- 8. High Intensity Runway Lighting (HIRL)
- 9. Taxiway Lighting
- 10. Apron Light (Perimeter Only)

The following have been designated "Continuous Power Airports," and have independent back up capability for the equipment installed.

Airport/Ident	Runway No.	Airport/Ident	Runway No
Albuquerque, NM (ABQ)	08	Milwaukee, WI (MKE)	01L
Anchorage, AK (ANC)	07R	Minneapolis, MN (MSP)	30L
Andrews AFB, MD (ADW)	01L	Nashville, TN (BNA)	02L
Atlanta, GA (ATL)	09R	New Orleans, LA (MSY)	10
Baltimore, MD (BWI)	10	New York, NY (JFK)	04R
Bismarck, ND (BIS)	31	New York, NY (LGA)	22
Boise, ID (BOI)	10R	Newark, NJ (EWR)	04R
Boston, MA (BOS)	04R	Oklahoma City, OK (OKC)	35R
Charlotte, NC (CLT)	36L	Omaha, NE (OMA))	14R
Chicago, IL (ORD)	14R	Ontario, CA (ONT)	26L
Cincinnati, OH (CVG)	36C	Philadelphia, PA (PHL)	09R
Cleveland, OH (CLE)	06R	Phoenix, AZ (PHX)	80
Dallas/Fort Worth, TX (DFW)	17C	Pittsburgh, PA (PIT)	10L
Denver, CO (DEN)	35R	Reno, NV (RNO)	16R
Des Moines, IA (DSM)	31	Salt Lake City, UT (SLC)	34L
Detroit, MI (DTW)	03R	San Antonio, TX (SAT)	12R
El Paso, TX (ELP)	22	San Diego, CA (SAN)	09
Fairbanks, AK (FAI)	01L	San Francisco, CA (SFO)	28R
Great Falls, MT (GTF)	03	San Juan, PR (SJU)	08
Honolulu, HI (HNL)	08L	Seattle, WA (SEA)	16C
Houston, TX (IAH)	26L	St. Louis, MO (STL)	30R
Indianapolis, IN (IND)	05L	Tampa, FL (TPA)	36L
Jacksonville, FL (JAX)	07	Tulsa, OK (TUL)	36R
Kansas City, MO (MCI)	19R	Washington, DC (DCA)	01
Los Angeles, CA (LAX)	24R	Washington, DC (IAD)	01R
Memphis, TN (MEM)	36L	Wichita, KS (ICT)	01L
Miami, FL (MIA)	08R		

NOTE—The existing CPA runway is listed. Pending and future changes at some locations will require a revised runway designation.

#### **FIREFIGHTING TRAFFIC AREAS**



Pilots are advised to stay clear of Firefighting Traffic Areas. Remain 15 miles from the area of activity. If you must over-fly the area, do so at an altitude of 5000 feet AGL above. However, to remain safe and out of the way of working aircraft, it is best to circumnavigate the area.

The wild-land fire environment can be very complex and involve a large number and variety of aircraft types including fixed and rotary wing aircraft. Some of the aircraft are small single and multi-engine command and control platforms that can be especially difficult to see and may give the appearance that the fire is not staffed. The aircraft participating in firefighting can orbit as far out as 12 miles from the perimeter of the fire. Any intrusion by aircraft not directly involved in the firefighting operation could delay the delivery of much needed retardant or water to ground firefighters and will adversely affect the safety of participating aircraft. Please stay well away from wild-land fires even if you feel that aircraft are not working the fire; they may be en route or unseen.

If you see a fire developing along your route, report it immediately to air traffic control who will advise the US Forest Service. The firefighting community would welcome this information

The following narratives summarize the FAR Part 93 Special Air Traffic Rules, and Airport Traffic Patterns in effect as prescribed in the rule. This information is advisory in nature and in no way relieves the pilot from compliance with the specific rules set forth in FAR Parts 91 and 93.

Special Airport Traffic Areas prescribed in Part 93 are depicted on Sectional Aeronautical Charts, World Aeronautical Charts, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

# OPERATIONS RESERVATIONS FOR HIGH DENSITY TRAFFIC AIRPORTS KENNEDY. LAGUARDIA. AND WASHINGTON REAGAN NATIONAL

The Federal Aviation Administration (FAA) has designated New York's Kennedy and LaGuardia Airports and Washington Reagan National Airport as High Density Traffic Airports (HDTA), Title 14, Code of Federal Regulations, part 93, subpart K, and has prescribed air traffic rules and requirements for operating aircraft (excluding helicopters) to and from those airports during certain hours.

Reservations are required for operations from 6 a.m. through 11:59 p.m. local time at LaGuardia Airport and Washington Reagan National Airport. Reservations at Kennedy Airport are required from 3 p.m. through 7:59 p.m. local time.

Reservation procedures are detailed in Advisory Circular 93–1, Reservations for Unscheduled Operations at High Density Traffic Airports. A copy of the advisory circular is available on the FAA website at <a href="http://www.faa.gov">http://www.faa.gov</a>. Reservations for unscheduled operations are allocated through the Enhanced Computer Voice Reservation System (e–CVRS) accessible via telephone or the Internet. This system may not be used to make reservations for scheduled air carrier or commuter flights.

The toll–free telephone number for accessing e–CVRS is 1–800–875–9694 and is available for calls originating within the United States, Canada, and the Caribbean. Users outside the toll–free areas may access e–CVRS by calling the toll number of 703–707–0568. The Internet web address for accessing the e–CVRS is <a href="http://www.fly.faa.gov/ecvrs">http://www.fly.faa.gov/ecvrs</a>. If you have any questions about reservation requirements or are experiencing problems with the system, you may telephone the Airport Reservation Office at the Air Traffic Control System Command Center at (703) 904–4452.

Requests for instrument flight rules (IFR) reservations will be accepted beginning 72 hours prior to the proposed time of operation at the high-density airport. For example, a request for an 11 a.m. reservation on a Thursday will be accepted beginning at 11 a.m. on the previous Monday.

IFR reservations must be obtained prior to IFR landing or takeoff at an HDTA during slot controlled hours. An air traffic control (ATC) clearance does not constitute a reservation. A reservation does not constitute permission to operate at an HDTA if additional operational limits or procedures are required by NOTAM and/or regulation.

Aircraft involved in medical emergencies will be handled by ATC without regard to a reservation after obtaining prior approval of the ATC System Command Center on (703) 904–4452. ATC will accommodate declared other emergency situations without regard to slot reservations.

NOTE: Visual flight rule (VFR) reservations via ATC for unscheduled operations at LaGuardia are not authorized from 7 a.m. through 8:59 a.m. local time and 4 p.m. through 6:59 p.m. local time, Monday through Friday and Sunday evenings, unless otherwise announced by NOTAM. Both IFR and VFR operations during those time periods must obtain an advance reservation through e–CVRS.

# FSS Telephone numbers

Flight Service Station (FSS) facilities provide flight planning and weather briefing services to pilots. FSS services in the contiguous United States, Hawaii and Puerto Rico, are provided by a network of large hub facilities and smaller remote facilities which are interconnected with the hubs.

Selected remote FSS facilities across the contiguous United States have variable part—time operating hours. Because of the interconnectivity between remote and hub facilities, all FSS services are available continuously using published telephone numbers and radio frequencies.

Telephone Information Briefing Service (TIBS) is the FSS service that provides continuous recordings of meteorological and/or aeronautical information including area and/or route briefings, airspace procedures and special announcements. A touch-tone telephone is required to fully utilize this service.

Further information can be found in the Aeronautical Information Manual (AIM).

#### NATIONAL FSS TELEPHONE NUMBER

# OTHER FSS TELEPHONE NUMBERS (except in Alaska)

TIBS (see description above)	1-800-4TIBS-WX (1-877-484-2799)
Clearance Delivery Only	1-888-766-8267
Lifeguard Flights Only	1-877-LIF-GRD3 (1-877-543-4733)
Flights within DC SFRA & FRZ *	1-866-225-7410

<sup>\*</sup> District of Columbia Special Flight Rules Area & Flight Restricted Zone

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# KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

TAF KPIT 091730Z 091818 15005KT 5SM HZ.FEW020 WS010/31022KT FM1930 30015G25KT 3SM SHRA OVC015 TEMPO 2022 1/2SM +TSRA OVC008CB

FM0100 27008KT 5SM SHRA BKN020 OVC040 PROB40 0407 1SM -RA BR FM1015 18005KT 6SM -SHRA OVC020 BECMG 1315 P6SM NSW SKC

METAR KPIT 091955Z COR 22015G25KT 3/4SM R28L/2600FT TSRA OVC010CB 18/16 A2992 RMK SLP045 T01820159

Forecast	Explanation	Report
TAF	Message type: <u>TAF-routine or <u>TAF AMD-amended forecast</u>, <u>METAR-hourly</u>, <u>SPECI-special or <u>TESTM-non-commissioned ASOS</u> report</u></u>	METAR
KPIT	ICAO location indicator	KPIT
091730Z	Issuance time: ALL times in UTC "Z", 2-digit date, 4-digit time	091955Z
091818	Valid period: 2-digit date, 2-digit beginning, 2-digit ending times	
	In U.S. <b>METAR</b> : <u>COR</u> rected ob; or <u>AUTO</u> mated ob for automated report with no human intervention; omitted when observer logs on	COR
15005KT	Wind: 3 digit true-north direction, nearest 10 degrees (or <u>VaRiaBle</u> ); next 2-3 digits for speed and unit, <u>KT</u> (KMH or MPS); as needed, <u>G</u> ust and maximum speed; 00000KT for calm; for <b>METAR</b> , if direction varies 60 degrees or more, <u>V</u> ariability appended, e.g. 180 <u>V</u> 260	22015G25KT
5SM	Prevailing visibility: in U.S., Statute Miles & fractions; above 6 miles in TAF Plus6SM. (Or, 4-digit minimum visibility in meters and as required, lowest value with direction)	3/4SM
	Runway Visual Range: R; 2-digit runway designator Left, Center, or Right as needed; '\sumsymbol'; Minus or Plus in U.S., 4-digit value, FeeT in U.S., (usually meters elsewhere); 4-digit value Variability 4-digit value (and tendency Down, Up or No change)	R28L/2600FT
HZ	Significant present, forecast and recent weather: see table (on back)	TSRA
FEW020	Cloud amount, height and type: SKy Clear 0/8, FEW >0/8-2/8, SCaTtered 3/8-4/8, BroKeN 5/8-7/8, OVerCast 8/8; 3-digit height in hundreds of ft; Towering CUmulus or CumulonimBus in METAR; in TAF, only CB. Vertical Visibility for obscured sky and height "VV004". More than 1 layer may be reported or forecast. In automated METAR reports only, CLeaR for "clear below 12,000 feet"	OVC010CB
	Temperature: degrees Celsius; first 2 digits, temperature "/" last 2 digits, dew-point temperature; Minus for below zero, e.g., M06	18/16
	Altimeter setting: indicator and 4 digits; in U.S., A-inches and hundredths; (Q-hectoPascals, e.g., Q1013)	A2992

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# KEY to AERODROME FORECAST (TAF) and **AVIATION ROUTINE WEATHER REPORT** (METAR)

Forecast	Explanation	Report
WS010/31022KT	In U.S. <b>TAF</b> , non-convective low-level (≤2,000 ft) <u>Wind Shear</u> ; 3-digit height (hundreds of ft); "/"; 3-digit wind direction and 2-3 digit wind speed above the indicated height, and unit, <u>KT</u>	
	In <b>METAR</b> , <u>ReMarK</u> indicator & remarks. For example: <u>Sea-Level Pressure</u> in hectoPascals & tenths, as shown: 1004.5 hPa; <u>Temp/dew-point</u> in tenths °C, as shown: temp. 18.2°C, dew-point 15.9°C	RMK SLP045 T01820159
FM1930	<u>FroM</u> and 2-digit hour and 2-digit minute <b>beginning</b> time: indicates significant change. Each FM starts on new line, indented 5 spaces.	
TEMPO 2022	TEMPOrary: changes expected for < 1 hour and in total, < half of 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period	
PROB40 0407	PROBability and 2-digit percent (30 or 40): probable condition during 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period	
BECMG 1315	BECoMinG: change expected during 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period	

Table of Significant Present, Forecast and Recent Weather - Grouped in categories and used in the order listed below; or as needed in TAF, No Significant Weather.

QUALIFIER				
Intensity or Proximit	y			
- Light	"no sign" Moderate	+ Heavy		
VC Vicinity: but no	t at aerodrome; in U.S.	METAR, between 5 a	and 10SM of the point(s) of	
			complex (elsewhere within 8000	0m)
Descriptor		·	, ,	·
MI Shallow	BC Patches	PR Partial	TS Thunderstorm	
BL Blowing	SH Showers	DR Drifting	FZ Freezing	
WEATHER PHEN	OMENA			
Precipitation				
	RA Rain	SN Snow	SG Snow grains	
IC Ice crystals	PL Ice pellets	GR Hail	GS Small hail/snow pelle	ets
UP Unknown preci	pitation in automated of	bservations		
Obscuration				
	FG Fog (<5/8SM)	FU Smoke	VA Volcanic ash	
SA Sand	HZ Haze	PY Spray	DU Widespread dust	
Other				
	SS Sandstorm		PO Well developed	
FC Funnel cloud	+FC tornado/waterspo	out	dust/sand whirls	

- Explanations in parentheses "()" indicate different worldwide practices.

- Ceiling is not specified; defined as the lowest broken or overcast layer, or the vertical visibility.
   NWS TAFs exclude turbulence, icing & temperature forecasts; NWS METARs exclude trend fcsts
   Although not used in US, Ceiling And Visibility OK replaces visibility, weather and clouds if: visibility ≥10 km; no cloud below 5000 ft (1500 m) or below the highest minimum sector altitude, whichever is greater and no CB; and no precipitation, TS, DS, SS, MIFG, DRDU, DRSA or DRSN.

  UNITED STATES DEPARTMENT OF COMMERCE

NOAA/PA 96052 National Oceanic and Atmospheric Administration—National Weather Service

# FAA AND NWS KEY AIR TRAFFIC FACILITIES

# **Air Traffic Control System Command Center**

Main Number......703–904–4400

RGNL AIR TRAFFIC DIVISIONS		
REGION	TELEPHONE	
Alaskan	907-271-5464	
Central	816-329-2500	
Eastern	718-553-4502	
Great Lakes	847-294-7202	
New England	781-238-7500	
Northwest Mountain	425-227-2500	
Southern	404-305-5500	
Southwest	817-222-5500	
Western Pacific	310-725-6500	

# AIR ROUTE TRAFFIC CONTROL CENTERS (ARTCCs)

ARTCC NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS Hours	BUSINESS TELEPHONE #
Albuquerque	817-222-5006	7:30 a.m4:00 p.m.	505-856-4300
Anchorage	907-271-5936	7:30 a.m4:00 p.m.	907-269-1137
Atlanta	404-305-5180	7:30 a.m5:00 p.m.	770-210-7601
Boston	617-238-7001	7:30 a.m4:00 p.m.	603-879-6633
Chicago	847-294-8400	8:00 a.m4:00 p.m.	630-906-8221
Cleveland	847-294-8400	8:00 a.m4:00 p.m.	440-774-0310
Denver	425-227-1389	7:30 a.m4:00 p.m.	303-651-4100
Ft. Worth	817-222-5006	7:30 a.m4:00 p.m.	817-858-7503
Houston	817-222-5006	7:30 a.m4:00 p.m.	281-230-5300
Indianapolis	847-294-8400	8:00 a.m4:00 p.m.	317-247-2231
Jacksonville	404-305-5180	8:00 a.m4:30 p.m.	904-549-1501
Kansas City	816-329-3000	7:30 a.m4:00 p.m.	913-254-8500
Los Angeles	661-265-8200	7:30 a.m4:00 p.m.	661-265-8200
Memphis	404-305-5180	7:30 a.m4:00 p.m.	901-368-8103
Miami	404-305-5180	7:00 a.m3:30 p.m.	305-716-1500
Minneapolis	847-294-8400	8:00 a.m4:00 p.m.	651-463-5580
New York	718-995-5426	8:00 a.m4:40 p.m.	516-468-1001
Oakland	310-725-3300	6:30 a.m3:00 p.m.	510-745-3331
Salt Lake City	425-227-1389	7:30 a.m4:00 p.m.	801-320-2500
Seattle	425-227-1389	7:30 a.m4:00 p.m.	253-351-3500
Washington	718-995-5426	8:00 a.m4:30 p.m.	703-771-3401

# MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONS)

TRACON NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS Hours	BUSINESS TELEPHONE #
Atlanta	404-305-5180	7:00 a.m3:30 p.m.	404-669-1200
Chicago	847-294-8400	8:00 a.m4:00 p.m.	847-608-5509
Dallas/Ft. Worth	817-222-5006	7:30 a.m4:00 p.m.	972-615-2500
Denver	425-227-1389	7:30 a.m4:00 p.m.	303-342-1500
Houston	817-222-5006	7:30 a.m4:00 p.m.	281-230-8400
New York	718-995-5426	8:00 a.m4:30 p.m.	516-683-2901
Northern CA	310-725-3300	7:00 a.m3:30 p.m.	916-366-4001
Southern CA	310-725-3300	7:30 a.m4:00 p.m.	858-537-5800

<sup>\*</sup>Facilities can be contacted through the RgnI Duty Officer during non-business hours.

# FAA AND NWS

# KEY AIR TRAFFIC FACILITIES DAILY NAS REPORTABLE AIRPORTS

NAME TELEPHONE # HOURS TELEPHONE # ADDUCTION STATE   ADDUCTION   B17-222-5006   8:00 a.m5:00 p.m.   505-842-8380   Andrews AFB, MD   718-995-5426   8:00 a.m4:30 p.m.   301-735-2380   Baltimore/Washington   10   10   10   10   10   10   10   1	AIRPORT	*24 HR RGNL DUTY OFFICE	BUSINESS	BUSINESS
Andrews AFE, MD  Baltimore, Washington  Intl Thurgood Marshall, MD  718-995-5426  8:00 a.m4:30 p.m.  410-962-3555  Boston Logan Intl, MA  781-238-7001  7:30 a.m4:00 p.m.  617-455-3100  8:00 a.m4:30 p.m.  410-962-3555  Boston Logan Intl, MA  781-238-7001  7:30 a.m4:00 p.m.  617-455-3100  8:00 a.m4:30 p.m.  617-455-3100  8:00 a.m4:00 p.m.  617-455-3100  8:00 a.m4:00 p.m.  617-455-3100  8:00 a.m4:00 p.m.  617-455-3100  8:00 a.m4:00 p.m.  773-681-657-4806  8:00 a.m4:00 p.m.  774-644-6487  781-288-3670  781-288-3670  8:00 a.m4:00 p.m.  773-681-67-4806  8:00 a.m4:00 p.m.  773-681-78-84-3610  8:00 a.m4:00 p.m.  972-615-2531  8:00 a.m4:00 p.m.  973-645-7401  8:00 a.m4:00 p.m.  972-615-2531  972-615-2531  972-615-2531  972-615-2531  973-615-2500  973-715-2500  973-715-				
Baltimore/Washington IntiThurgood Marshall, MD 718-995-5426 Boston Logan Intl. MA 781-238-7001 7:30 a.m4:00 p.m. 617-455-3100 Paradley Intl. CT 617-238-7001 7:30 a.m4:00 p.m. 617-455-3100 Paradley Intl. CT 617-238-7001 7:30 a.m4:00 p.m. 818-567-4806 Chariotte Douglas Intl, NC 404-305-5180 8:00 a.m4:30 p.m. 704-344-6847 Chicago O Hare Intl, IL 847-294-8400 8:00 a.m4:00 p.m. 773-884-3670 Chicago O Hare Intl, IL 847-294-8400 8:00 a.m4:00 p.m. 773-688-3670 Cloveland Hopkins Intl, OH 847-294-8400 8:00 a.m4:00 p.m. 773-688-3670 Covington/Cinclinnati, OH 773-684-3670 Covington/Cinclinnati, OH 773-684-3670 Covington/Cinclinnati, OH 773-684-3670 Covington/Cinclinnati, OH 773-684-3670 Covington/Cinclinnati, OH 847-294-8400 8:00 a.m4:00 p.m. 972-615-2531 Dayton Cox Intl, OH 847-294-8400 8:00 a.m4:00 p.m. 973-615-2531 Dayton Cox Intl, OH 847-294-8400 8:00 a.m4:00 p.m. 973-464-7300 Detroil Metro, MI 847-294-8400 8:00 a.m4:00 p.m. 973-464-7300 Detroil Metro, MI 847-294-8400 8:00 a.m4:00 p.m. 973-464-7300 Detroil Metro, MI 847-294-8400 8:00 a.m4:00 p.m. 974-470-050 Fort Lauderdale Intl, FL 97-87-98-890 Fort Lauderdale Intl, FL 97-890 Fort Lauderdale Intl, FL 980 Fort Lauderdale Intl,				
Inti Thurgood Marshall, MD 718–995–5426 Baston Logan Inti, MA 781–238–7001 7:30 a.m.—4:00 p.m. 617–455–3100 Bradley Inti, CT 617–238–7001 7:30 a.m.—4:00 p.m. 203–627–3428 Burbank/Boh Hope, CA 310–725–3300 7:00 a.m.—5:30 p.m. 708–748–7400 Randy Fob Hope, CA 310–725–3300 7:00 a.m.—4:00 p.m. 773–6817–4846-4887 Chicago Midway, IL 847–294–8400 8:00 a.m.—4:00 p.m. 773–6810–7600 Cleveland Hopkins Inti, OH 847–294–8400 8:00 a.m.—4:00 p.m. 773–6810–7600 Cleveland Hopkins Inti, OH 847–294–8400 8:00 a.m.—4:00 p.m. 773–6817–7600 Dallas/Ft. Worth Inti, TX 817–222–5006 8:30 a.m.—4:00 p.m. 972–615–2531 Dayton Cox Inti, OH 847–294–8400 7:30 a.m.—4:00 p.m. 973–6457–300 Deriver Inti, CD 973–8400 Deriver Inti, CD 973–9400 Deriver Inti, CD 973–9400 Deriver Inti, CD 973–9400 Deriver Inti, CD 974–7401 8:00 a.m.—4:00 p.m. 973–6457–300 Deriver Inti, CD 974–7401 8:00 a.m.—4:00 p.m. 973–6457–300 Deriver Inti, CD 974–7401 8:00 a.m.—4:00 p.m. 974–647–7050 Deriver Inti, CD 974–7400 Deriver Inti, CD 975–5180 Province Inti, FL 970–970 Deriver Inti, CD 970–		718–995–5426	8:00 a.m4:30 p.m.	301–735–2380
Boston Logan Intl, MA 781-238-7001 7:30 a.m4:00 p.m. 203-627-3428 Burbank/Bob Hope, CA 310-725-3300 7:00 a.m4:00 p.m. 203-627-3428 Burbank/Bob Hope, CA 310-725-3300 7:00 a.m4:00 p.m. 818-567-4806 Charlotte Douglas Intl, NC 404-305-5180 8:00 a.m4:30 p.m. 774-884-3670 Chicago O'Hare Intl, IL 847-294-8400 8:00 a.m4:00 p.m. 773-8681-3670 Chicago O'Hare Intl, IL 847-294-8400 8:00 a.m4:00 p.m. 773-8684-3670 Clicago O'Hare Intl, IL 847-294-8400 8:00 a.m4:00 p.m. 773-868-3670 Covington/Cinclinnati, OH 708-294-7401 8:00 a.m4:00 p.m. 972-615-2531 Dayton Cox Intl, OH 847-294-8400 8:00 a.m4:00 p.m. 973-615-2531 Dayton Cox Intl, OH 847-294-8400 8:00 a.m4:00 p.m. 973-615-2531 Dayton Cox Intl, OH 847-294-8400 8:00 a.m4:00 p.m. 973-615-2531 Dayton Cox Intl, OH 847-294-8400 8:00 a.m4:00 p.m. 973-615-2531 Dayton Cox Intl, OH 847-294-8400 8:00 a.m4:00 p.m. 973-454-7300 Dervor Intl, CO 425-227-1389 7:30 a.m4:00 p.m. 973-454-7300 Fairbanks Intl, AK 907-271-5938 7:30 a.m4:00 p.m. 974-455-5000 Fairbanks Intl, AK 907-271-5938 7:30 a.m4:00 p.m. 974-455-5000 Fairbanks Intl, AR 97-294-8400 8:00 a.m4:30 p.m. 974-474-05-5180 7:00 a.m3:30 p.m. 974-474-05-5180 7:00 a.m4:00 p.m. 974-474-05-518	, 9	740 005 5400	0.00	440 000 0555
Bradley Ind. CT 617-238-7001 Brubank/Bob Hope, CA 310-725-3300 7:00 a.m5:30 p.m. 818-567-4806 Charlotte Douglas Intl, NC 404-305-5180 8:00 a.m4:30 p.m. 704-344-6487 Chicago Midway, I. 847-294-8400 8:00 a.m4:00 p.m. 773-681-7600 Cleveland Hopkins Intl, OH 847-294-8400 8:00 a.m4:00 p.m. 773-681-7600 Cleveland Hopkins Intl, OH 847-294-8400 8:00 a.m4:00 p.m. 773-681-7600 Cleveland Hopkins Intl, OH 847-294-8400 8:00 a.m4:00 p.m. 972-615-7600 Dallas/Ft. Worth Intl, TX 817-222-5006 8:30 a.m4:00 p.m. 972-615-2531 Dayton Cox Intl, OH 847-294-8400 7:30 a.m4:00 p.m. 972-615-2531 Denver Intl, CO 972-71-5938 7:30 a.m4:00 p.m. 972-615-2531 Denver Intl, CO 972-71-5938 7:30 a.m4:00 p.m. 973-454-7300 Denver Intl, CO 972-71-5938 7:30 a.m4:00 p.m. 973-474-0050 Fort Lauderdale Intl, FL 972-71-5938 7:30 a.m4:00 p.m. 973-474-0050 Fort Lauderdale Intl, FL 972-71-5938 7:30 a.m4:00 p.m. 973-474-0050 Fort Lauderdale Intl, FL 972-71-5938 7:30 a.m4:00 p.m. 973-474-0050 Fort Lauderdale Intl, FL 972-71-5938 7:30 a.m4:00 p.m. 973-474-0050 Fort Lauderdale Intl, FL 972-71-5938 7:30 a.m4:00 p.m. 973-474-0050 Fort Lauderdale Intl, FL 972-71-5938 7:30 a.m4:00 p.m. 973-474-0050 Fort Lauderdale Intl, FL 972-71-5938 7:30 a.m4:00 p.m. 973-474-0050 Fort Lauderdale Intl, FL 972-71-5938 7:30 a.m4:00 p.m. 973-474-0050 Fort Lauderdale Intl, FL 972-71-5938 7:30 a.m4:00 p.m. 973-847-1400 Intlatisfield-Jackson Atlantal Intl, GA 972-72-5066 8:00 a.m3:30 p.m. 973-848-940-6100 Houston Hobby, TX 113-844-6600 Rahilly Maul, HI 110-643-3200 7:30 a.m4:00 p.m. 113-847-1400 Indianapolis Intl, IN 817-222-5006 8:00 a.m3:30 p.m. 117-847-1400 Indianapolis Intl, IN 817-222-5006 8:00 a.m4:00 p.m. 818-329-2700 Rahilly Maul, HI 810-643-3200 7:30 a.m4:00 p.m. 818-329-2700 Rahilly Maul, HI 810-643-3200 7:30 a.m4:00 p.m. 818-329-2700 Rahilly Maul, HI 810-643-3200 7:30 a.m4:00 p.m. 818-329-2700 Rahilly Maul, HI 810-643-3200 Rahilly Maul, HI 810-643-3200 Rahilly Maul, HI 810-829-8300 Rahilly Maul, HI 810-829-8300 Rahilly Maul,				
Burbank/Bob Hope, CA   310-725-3300   7:00 a.m5:30 p.m.   818-567-486-4687   Chicago Midway, IL   847-294-8400   8:00 a.m4:00 p.m.   773-884-3670   Chicago Midway, IL   847-294-8400   8:00 a.m4:00 p.m.   773-894-3670   Chicago O'Hare Intl, IL   847-294-8400   8:00 a.m4:00 p.m.   773-891-3670   Covington/Cincinati, O'H   708-294-7401   8:00 a.m4:00 p.m.   606-767-100   Covington/Cincinati, O'H   708-294-7401   8:00 a.m4:00 p.m.   977-615-2531   Covington/Cincinati, O'H   847-294-8400   7:30 a.m4:00 p.m.   977-615-2531   Covington/Cincinati, O'H   847-294-8400   7:30 a.m4:00 p.m.   937-464-7631   Covington/Cincinati, O'H   847-294-8400   7:30 a.m4:00 p.m.   937-464-7605   Covington/Cincinati, O'H   847-294-8400   7:30 a.m4:00 p.m.   937-464-7005   Covington/Cincinati, O'H   847-294-8400   8:00 a.m4:00 p.m.   937-464-7005   Covington/Cincinati, O'H   847-294-8400   8:00 a.m4:00 p.m.   937-464-7005   Covington/Cincinati, O'H   97-271-5936   7:30 a.m4:00 p.m.   97-474-0050   Covington/Cincination/Cincina				
Charlotte Douglas Intl, NC Chicago Midway, II. 847–294-8400 8:00 a.m4:00 p.m. 773–884–3670 Chicago O'Hare Intl, IL 847–294-8400 8:00 a.m4:00 p.m. 773–884–3670 Clieveland Hopkins Intl, OH 847–294-8400 8:00 a.m4:00 p.m. 773–601–7600 Clieveland Hopkins Intl, OH 847–294-8400 8:00 a.m4:00 p.m. 216-898–200 Clieveland Hopkins Intl, OH 847–294-8400 8:00 a.m4:00 p.m. 972–615–2610 Dallas/Ft. Worth Intl, TX 847–292-5006 8:30 a.m5:00 p.m. 972–615–2610 Dayton Cox Intl, OH 847–294-8400 7:30 a.m4:00 p.m. 973–454–7310 Derwor Intl, CO 425–227–1389 7:30 a.m4:00 p.m. 973–454–7310 Derwor Intl, CO 425–227–1389 7:30 a.m4:00 p.m. 973–455–5000 Fairbanks Intl, AK 907–271–5936 7:30 a.m4:00 p.m. 907-474–0050 Taylon Cox Intled Intl, FL 907-908 Fairbanks Intl, AK 907–274–5936 7:30 a.m4:00 p.m. 907-474–0050 Taylon Cox Intled Intl, FL 908-908-908 Intercontinental/Houston, TX 817–222–5006 7:30 a.m4:00 p.m. 713–230–8400 Honolulu Intl, HI 310–643–3200 7:30 a.m4:00 p.m. 808-840–6100 Honolulu Intl, HI 310–643–3200 7:30 a.m4:00 p.m. 317-484–6600 Indianapolis Intl, IN 847–294-8400 8:00 a.m4:00 p.m. 317-484–6600 Rahulul/Maui, HI 310–643–3200 7:30 a.m4:00 p.m. 308-840–4010 Rahulul/Maui, HI 310–643–3200 7:30 a.m4:00 p.m. 308-840–8400 Rahulul/Maui, HI 310–643–3200 Rahulul				
Chicago Midway, IL			· ·	
Chicago O'Hare Intl, IL				
Cleweland Hopkins Intl, OH				
Covington/Cincinnati, OH         708–294–7401         8:00 a.m4:30 p.m.         606–767–1006           Dallas/Pt. Worth Intl, TX         817–222–5006         8:30 a.m5:00 p.m.         972–615–2531           Dayton Cox Intl, OH         847–294–8400         7:30 a.m4:00 p.m.         303–342–1600           Dervor Intl, CO         425–227–1389         7:30 a.m4:00 p.m.         303–342–1600           Dervor Intl, CO         425–227–13936         7:30 a.m4:00 p.m.         907–474–0050           Fort Lauderdale Intl, FL         404–305–5180         7:00 a.m3:00 p.m.         907–474–0050           Fort Lauderdale Intl, FL         404–305–5180         7:00 a.m3:30 p.m.         713–230–8400           Hartsfield-Jackson Atlanta Intl, GA         404–305–5180         7:00 a.m3:30 p.m.         713–230–8400           Houston Hobby, TX         817–222–5006         7:30 a.m4:00 p.m.         808–840–6100           Houston Hobby, TX         817–222–5006         8:00 a.m5:00 p.m.         713–847–7025           Kansas City Intl, MO         816–329–200         7:30 a.m4:00 p.m.         713–848–6000           Kansas City Intl, MO         816–329–3000         7:30 a.m4:00 p.m.         717–22-25-5978           Los Angeles Intl, CA         310–725–3300         7:30 a.m4:00 p.m.         702–262-5978           Los	=			
Dallas   Pr. Worth Intl., TX   817–222–5006   8:30 a.m.—5:00 p.m.   972–615–2531   Dayton Cox Intl., OH   847–294–8400   7:30 a.m.—4:00 p.m.   937–454–7300   Detroit Metro, MI   847–294–8400   8:00 a.m.—4:00 p.m.   734–955–5000   Detroit Metro, MI   847–294–8400   8:00 a.m.—3:30 p.m.   305–356–7932   Detroit Metro, MI   847–222–5006   7:30 a.m.—4:00 p.m.   713–230–8400   Hartsfield–Jackson Atlanta Intl., GA   404–305–5180   7:00 a.m.—3:30 p.m.   404–669–1200   Honolulu Intl., HI   847–294–8400   8:00 a.m.—4:00 p.m.   713–847–1400   Houston Hobby, TX   817–222–5006   8:00 a.m.—4:00 p.m.   713–847–1400   Houston Hobby, TX   817–222–5006   8:00 a.m.—4:00 p.m.   713–847–1400   Houston Hobby, TX   817–223–8000   7:30 a.m.—4:00 p.m.   816–329–2700   Handwill, HI   310–643–3200   7:30 a.m.—4:00 p.m.   816–329–2700   Las Vegas Mecaran, NV   310–725–3300   7:30 a.m.—4:00 p.m.   816–329–2700   Las Vegas Mecaran, NV   310–725–3300   7:00 a.m.—3:30 p.m.   310–342–4900   Louis Armstrong New Orleans Intl., LA   817–222–5006   7:00 a.m.—4:00 p.m.   310–342–3400   Mamphis Intl., TN   404–305–5180   7:00 a.m.—4:00 p.m.   305–869–5400   Minneapolis/St. Paul, MN   847–294–8400   8:00 a.m.—4:00 p.m.   307–869–5400   Minneapolis/St. Paul, MN   404–305–5180   7:00 a.m.—4:00 p.m.   305–869–5400   Minneapolis/St. Paul, MN   404–305–5180   7:00 a.m.—4:00 p.m.   40	·			
Dayton Cox Intl, OH         847–294-8400         7:30 a.m4:00 p.m.         937-454-7300           Demver Intl, CO         425-227-1389         7:30 a.m4:00 p.m.         303-42-1600           Detroit Metro, MI         847-294-8400         8:00 a.m4:00 p.m.         907-474-0050           Fort Lauderdale Intl, FL         404-305-5180         7:30 a.m4:00 p.m.         907-474-0050           George Bush         Intercontinental/Houston, TX         817-222-5006         7:30 a.m4:00 p.m.         713-230-840           Hartsfield-Jackson Atlanta Intl, GA         404-305-5180         7:00 a.m3:30 p.m.         404-609-1200           Honolulu Intl, HI         310-643-3200         7:30 a.m4:00 p.m.         808-840-6100           Houston Hobby, TX         817-222-5006         8:00 a.m5:00 p.m.         131-484-660           Kahului/Maui, HI         310-643-3200         7:30 a.m4:00 p.m.         317-484-660           Kahului/Maui, HI         310-643-3200         7:30 a.m4:00 p.m.         808-877-0725           Kansas City Intl, MO         816-329-300         7:30 a.m4:00 p.m.         702-262-5978           Los Angeles Intl, CA         310-725-3300         7:30 a.m4:00 p.m.         702-262-5978           Los Angeles Intl, CA         310-725-3300         7:30 a.m4:00 p.m.         901-322-3350	= '			
Denver Intl, CO         425–227–1388         7:30 a.m. –4:00 p.m.         303–342–1600           Detroit Metro, MI         847–294–8400         8:00 a.m. –4:00 p.m.         734–955–5000           Fairbanks Intl, AK         907–271–5936         7:30 a.m. –4:00 p.m.         907–474–0056           Fort Lauderdale Intl, FL         404–305–5180         7:00 a.m. –3:30 p.m.         305–356–7932           George Bush         Intercontinental/Houston, TX         817–222–5006         7:30 a.m. –4:00 p.m.         713–230–8400           Honstollu Intl, HI         310–643–3200         7:30 a.m. –4:00 p.m.         404–669–1200           Houston Hobby, TX         817–222–5006         8:00 a.m. –5:00 p.m.         713–847–1400           Houston Hobby, TX         817–222–5006         8:00 a.m. –5:00 p.m.         713–847–1400           Kansas City Intl, MO         816–329–3000         7:30 a.m. –4:00 p.m.         808–877–0725           Kansas City Intl, MO         816–329–3000         7:30 a.m. –4:00 p.m.         816–329–2700           Los Angeles Intl, CA         310–725–3300         7:30 a.m. –4:00 p.m.         816–329–2700           Los Angeles Intl, CA         310–725–3300         7:00 a.m. –3:30 p.m.         504–471–4300           Memphis Intl, TN         404–305–5180         7:00 a.m. –4:00 p.m.         901–322–3350				
Detroit Metro, MI		425-227-1389	· ·	303-342-1600
Fort Lauderdale Intl, FL 404–305–5180 7:00 a.m.–3:30 p.m. 305–356–7932 George Bush Intercontinental/Houston, TX 817–222–5006 7:30 a.m.–4:00 p.m. 713–230–8400 Hartsfield–Jackson Atlanta Intl, GA 404–305–5180 7:00 a.m.–3:30 p.m. 404–669–1200 honolulu Intl, HI 310–643–3200 7:30 a.m.–4:00 p.m. 808–840–6100 Houston Hobby, TX 817–222–5006 8:00 a.m.–5:00 p.m. 713–847–1400 Indianapolis Intl, IN 847–294–8400 8:00 a.m.–4:00 p.m. 317–484–6600 Rahului/Maui, HI 310–643–3200 7:30 a.m.–4:00 p.m. 808–877–70725 Kansas City Intl, MO 816–329–3000 7:30 a.m.–4:00 p.m. 816–329–2700 Las Vegas McCarran, NV 310–725–3300 7:30 a.m.–4:00 p.m. 816–329–2700 Las Vegas McCarran, NV 310–725–3300 7:00 a.m.–3:30 p.m. 504–471–4300 Louis Armstrong New Orleans Intl, LA 817–222–5006 7:00 a.m.–3:30 p.m. 504–471–4300 Memphis Intl, TN 404–305–5180 7:00 a.m.–4:00 p.m. 901–322–3350 Miami Intl, FL 404–305–5180 7:00 a.m.–4:00 p.m. 305–869–5400 Minneapolis/St. Paul, MN 847–294–8400 8:00 a.m.–4:00 p.m. 305–869–5400 Minneapolis/St. Paul, MN 847–294–8400 8:00 a.m.–4:30 p.m. 612–713–4000 Minneapolis/St. Paul, MN 847–294–8400 8:00 a.m.–4:30 p.m. 612–713–4000 Minneapolis/St. Paul, MN 847–294–8400 8:00 a.m.–4:30 p.m. 718–656–0335 New York La Guardia, NY 718–995–5426 8:00 a.m.–4:30 p.m. 718–656–0335 New York La Guardia, NY 718–995–5426 8:00 a.m.–4:30 p.m. 718–656–035 New York La Guardia, NY 718–995–5426 8:00 a.m.–4:30 p.m. 718–656–035 New York La Guardia, NY 718–995–5426 8:00 a.m.–4:30 p.m. 718–656–0305 Norman Y. Mineta San Jose Intl, CA 310–643–3200 7:30 a.m.–4:00 p.m. 973–645–3103 Norman Y. Mineta San Jose Intl, CA 310–643–3200 7:30 a.m.–4:00 p.m. 408–982–0750 Ontario Intl, CA 310–643–3200 7:30 a.m.–4:00 p.m. 408–982–0750 Ontario Intl, CA 310–643–3200 7:30 a.m.–4:00 p.m. 405–304–305 Photein Styl Harbor Intl, AZ 310–643–3200 7:30 a.m.–4:00 p.m. 405–304–305 Photein Styl Harbor Intl, AZ 310–643–3200 7:30 a.m.–4:00 p.m. 405–304–305 Photein Styl Harbor Intl, AZ 310–643–3200 7:30 a.m.–4:00 p.m. 405–304–305 Photein Styl Harbor Intl, AZ 310–643–3200 7:30 a.m.–4:00 p.m. 4				
George Bush Intercontinental/Houston, TX Inte	Fairbanks Intl, AK	907-271-5936	7:30 a.m4:00 p.m.	907-474-0050
Intercontinental/Houston, TX	Fort Lauderdale Intl, FL	404-305-5180	7:00 a.m3:30 p.m.	305-356-7932
Hartsfield-Jackson Atlanta Intl, GA Honolulu Intl, HI 310-643-3200 T:30 a.m4:00 p.m. 808-840-6100 Houston Hobby, TX 817-222-5006 8:00 a.m4:00 p.m. 317-484-6600 Indianapolis Intl, IN 847-294-8400 Rainapolis Intl, IN 816-329-3000 T:30 a.m4:00 p.m. 317-484-6600 Rainapolis Intl, IN 816-329-3000 T:30 a.m4:00 p.m. 816-329-2705 Kansas City Intl, M0 816-329-3000 T:30 a.m4:00 p.m. 816-329-2700 Las Vegas McCarran, NV 310-725-3300 T:30 a.m4:00 p.m. 816-329-2700 Las Vegas McCarran, NV 310-725-3300 T:30 a.m4:00 p.m. 100-471-471-4300 Louis Armstrong New Orleans Intl, LA 817-222-5006 T:00 a.m3:30 p.m. 504-471-4300 Memphis Intl, TN 404-305-5180 T:30 a.m4:00 p.m. 305-869-5400 Minneapolis/St. Paul, MN 847-294-8400 Rainapolis/St. Paul, Mn 847	George Bush			
Honolulu Intl, HI	Intercontinental/Houston, TX	817-222-5006	7:30 a.m4:00 p.m.	713-230-8400
Houston Hobby, TX	Hartsfield-Jackson Atlanta Intl, GA	404-305-5180	7:00 a.m3:30 p.m.	404-669-1200
Indianapolis Intl, IN Kahulu/Maui, HI S10-643-3200 Kahulu/Maui, HI S10-643-3200 T:30 a.m4:00 p.m. S08-877-0725 Ransas City Intl, MO S16-829-3000 T:30 a.m4:00 p.m. S16-329-2700 Las Vegas McCarran, NV S10-725-3300 T:30 a.m4:00 p.m. S16-329-2700 Las Vegas McCarran, NV S10-725-3300 T:00 a.m3:30 p.m. S10-342-4900 Momphis Intl, CA S10-725-3300 T:00 a.m3:30 p.m. S04-471-4300 Memphis Intl, TN Mod-305-5180 Miami Intl, FL Mod-305-5180 T:00 a.m4:00 p.m. Moshwille Intl, FL Mod-305-5180 T:00 a.m4:00 p.m. Moshwille Intl, TN Mod-305-5180 T:00 a.m4:30 p.m. Moshwille Intl, TN Mod-305-5180 T:00 a.m4:30 p.m. Momphis Intl, TN Mod-305-5180 T:00 a.m4:30 p.m. Moshwille Intl, TN Mod-305-5180 T:00 a.m4:30 p.m. Moshwille Intl, TN Mod-305-5180 T:00 a.m4:30 p.m. Momphis Intl, TN	Honolulu Intl, HI	310-643-3200	7:30 a.m4:00 p.m.	808-840-6100
Kahului/Maui, HI         310-643-3200         7:30 a.m4:00 p.m.         808-877-0725           Kansas City Intl, MO         816-329-3000         7:30 a.m4:00 p.m.         816-329-2700           Las Vegas McCarran, NV         310-725-3300         7:30 a.m4:00 p.m.         702-262-5978           Los Angeles Intl, CA         310-725-3300         7:30 a.m4:30 p.m.         504-471-4300           Louis Armstrong New Orleans Intl, LA         817-222-5006         7:00 a.m4:30 p.m.         504-471-4300           Memphis Intl, TN         404-305-5180         7:30 a.m4:00 p.m.         901-322-3350           Miami Intl, FL         404-305-5180         7:00 a.m4:00 p.m.         901-322-3350           Miami Intl, FL         404-305-5180         7:00 a.m4:00 p.m.         615-781-5400           New York Kennedy Intl, NY         718-995-5426         8:00 a.m4:30 p.m.         615-781-5460           New York La Guardia, NY         718-995-5426         8:00 a.m4:30 p.m.         718-656-0335           New York La Guardia, NY         718-995-5426         8:00 a.m4:30 p.m.         718-656-335           New York La Guardia, NY         718-995-5426         8:00 a.m4:30 p.m.         718-656-335           New York La Guardia, NY         718-995-5426         8:00 a.m4:00 p.m.         909-983-7518           Orlando	Houston Hobby, TX	817-222-5006	8:00 a.m5:00 p.m.	713-847-1400
Kansas City Intl, MO  Las Vegas McCarran, NV  310-725-3300  7:30 a.m4:00 p.m.  702-262-5978  Los Angeles Intl, CA  310-725-3300  7:30 a.m4:00 p.m.  702-262-5978  Royangeles Intl, CA  310-725-3300  7:00 a.m3:30 p.m.  504-471-4300  Memphis Intl, TN  404-305-5180  Miami Intl, FL  404-305-5180  Mineapolis/St. Paul, MN  847-294-8400  Royangeles Intl, CA  810-329-2700  New York Kennedy Intl, NY  404-305-5180  New York Kennedy Intl, NY  718-995-5426  Royangeles Intl, CA  310-643-3200  7:30 a.m4:00 p.m.  901-322-3350  New York La Guardia, NY  718-995-5426  Royangeles Intl, CA  310-643-3200  7:30 a.m4:00 p.m.  918-335-5461  Newark Liberty Intl, NJ  718-995-5426  Royangeles Intl, CA  310-643-3200  7:30 a.m4:00 p.m.  918-335-5461  Newark Liberty Intl, CA  310-643-3200  7:30 a.m4:00 p.m.  909-983-7518  Orlando Intl, FL  404-305-5180  7:30 a.m4:00 p.m.  407-850-7000  Philadelphia Intl, PA  718-995-5426  Royangeles Intl, CA  7:30 a.m4:00 p.m.  407-850-7000  Philadelphia Intl, PA  718-995-5426  Royangeles Intl, CA  7:30 a.m4:00 p.m.  407-850-7000  Philadelphia Intl, PA  718-995-5426  Royangeles Intl, CA  7:30 a.m4:00 p.m.  407-850-7000  Philadelphia Intl, PA  718-995-5426  Royangeles Intl, CA  7:30 a.m4:00 p.m.  407-850-7000  Phoenix Sky Harbor Intl, AZ  718-995-5426  Royangeles Intl, CA  8:00 a.m4:30 p.m.  412-269-9237  Portland Intl, OR  425-227-1389  7:30 a.m4:00 p.m.  503-493-7500  Royaldelphourham, NC  404-305-5180  Royangeles Intl, CA  8:00 a.m4:30 p.m.  703-413-1535  Salt Lake City, UT  425-227-1389  7:30 a.m4:00 p.m.  801-325-860  Seattle-Tacoma Intl, CA  310-643-3200  7:30 a.m4:00 p.m.  801-325-800  San Antonio Intl, TR  817-222-5006  Royangeles Intl, CA  810-643-3200  7:30 a.m4:00 p.m.  801-325-800  San Antonio Intl, TR  817-222-1389  7:30 a.m4:00 p.m.  801-325-800  San Antonio Intl, TR  817-222-1389  7:30 a.m4:00 p.m.  801-325-800  San Antonio Intl, TR  817-222-1389  7:30 a.m4:00 p.m.  801-325-800  San Antonio Intl, TR  801-299-6475  San Francisco Intl, CA  310-643-3200  7:	Indianapolis Intl, IN	847-294-8400	8:00 a.m4:00 p.m.	317-484-6600
Las Vegas McCarran, NV 310-725-3300 7:30 a.m4:00 p.m. 702-262-5978 Los Angeles Intl, CA 310-725-3300 7:00 a.m3:30 p.m. 310-342-4900 Louis Armstrong New Orleans Intl, LA 817-222-5006 7:00 a.m4:30 p.m. 504-4714-300 Memphis Intl, TN 404-305-5180 7:00 a.m4:00 p.m. 901-322-3350 Miami Intl, FL 404-305-5180 7:00 a.m4:00 p.m. 901-322-3350 Miami Intl, FL 404-305-5180 7:00 a.m4:00 p.m. 305-869-5400 Minneapolis/St. Paul, MN 847-294-8400 8:00 a.m4:00 p.m. 612-713-4000 Nashville Intl, TN 404-305-5180 7:00 a.m4:30 p.m. 615-781-5460 New York Kennedy Intl, NY 718-995-5426 8:00 a.m4:30 p.m. 718-656-0335 New York La Guardia, NY 718-995-5426 8:00 a.m4:30 p.m. 718-335-5461 Newark Liberty Intl, NJ 718-995-5426 8:00 a.m4:30 p.m. 973-645-3103 Norman Y. Mineta San Jose Intl, CA 310-643-3200 7:30 a.m4:00 p.m. 408-982-0750 Ontario Intl, CA 310-643-3200 7:30 a.m4:00 p.m. 408-982-0750 Ontario Intl, CA 310-643-3200 7:30 a.m4:00 p.m. 407-850-7000 Philadelphia Intl, PA 718-995-5426 8:00 a.m4:30 p.m. 215-492-4100 Philadelphia Intl, PA 718-995-5426 8:00 a.m4:30 p.m. 215-492-4100 Phoenix Sky Harbor Intl, AZ 310-643-3200 7:30 a.m4:00 p.m. 407-850-7000 Philadelphia Intl, PA 718-995-5426 8:00 a.m4:30 p.m. 215-492-4100 Phoenix Sky Harbor Intl, AZ 310-643-3200 7:30 a.m4:00 p.m. 602-379-4226 Pittsburgh Intl, PA 718-995-5426 8:00 a.m4:30 p.m. 215-492-4100 Protriand Intl, OR 425-227-1389 7:30 a.m4:00 p.m. 503-493-7500 Raleigh-Durham, NC 404-305-5180 8:00 a.m4:30 p.m. 919-840-5544 Ronald Reagan Washington National, DC 718-995-5426 8:00 a.m4:30 p.m. 919-840-5544 Ronald Reagan Washington National, DC 718-995-5426 8:00 a.m4:30 p.m. 919-840-5540 Ronald Reagan Washington National, DC 718-995-5426 8:00 a.m4:30 p.m. 919-840-5540 Ronald Reagan Washington National, DC 718-995-5426 8:00 a.m4:30 p.m. 919-840-5540 Ronald Reagan Washington National, TX 817-222-5006 8:00 a.m4:30 p.m. 919-840-5540 Ronald Reagan Washington National, DC 718-995-5426 8:00 a.m4:00 p.m. 909-253-8663 Rotatle-Tacoma Intl, WA 425-227-138			· ·	
Loss Angeles Intl, CA  January Carlos Angeles Intl, CA  Louis Armstrong New Orleans Intl, LA  Ratification Structure of the Memphis Intl, TN  Aud-305-5180  Memphis Intl, FL  Aud-305-5180  Minimi Intl, TN  Aud-305-5180  Aud-300  Minimi Intl, TN  Aud-305-5180  Aud-300  Minimi Intl, CA  Aud-305-5180  Aud-300	Kansas City Intl, MO	816-329-3000	7:30 a.m4:00 p.m.	816-329-2700
Louis Amstrong New Orleans Intl, LA         817–222–5006         7:00 a.m4:30 p.m.         504–471–4300           Memphis Intl, TN         404–305–5180         7:30 a.m4:00 p.m.         901–322–3350           Miami Intl, FL         404–305–5180         7:00 a.m4:00 p.m.         305–869–5400           Minneapolis/St. Paul, MN         847–294–8400         8:00 a.m4:00 p.m.         612–713–4000           New York Kennedy Intl, NY         404–305–5180         7:00 a.m3:30 p.m.         615–781–5460           New York La Guardia, NY         718–995–5426         8:00 a.m4:30 p.m.         718–566–0335           New York La Guardia, NY         718–995–5426         8:00 a.m4:30 p.m.         718–335–5461           New York La Guardia, NY         718–995–5426         8:00 a.m4:30 p.m.         718–335–5461           New York La Guardia, NY         718–995–5426         8:00 a.m4:30 p.m.         973–645–3103           Norman Y. Mineta San Jose Intl, CA         310–643–3200         7:30 a.m4:00 p.m.         909–983–7510           Orlario Intl, CA         310–643–3200         7:30 a.m4:00 p.m.         407–850–7000           Philadelphia Intl, PA         718–995–5426         8:00 a.m4:30 p.m.         215–492–4100           Phoenix Sky Harbor Intl, AZ         310–643–3200         7:30 a.m4:00 p.m.         602–379–4226 <td></td> <td></td> <td></td> <td></td>				
Memphis Intl, TN         404-305-5180         7:30 a.m4:00 p.m.         901-322-3350           Miami Intl, FL         404-305-5180         7:00 a.m4:00 p.m.         305-869-5400           Minneapolis/St. Paul, MN         847-294-8400         8:00 a.m4:00 p.m.         615-781-5400           Nashville Intl, TN         404-305-5180         7:00 a.m3:30 p.m.         615-781-5460           New York Kennedy Intl, NY         718-995-5426         8:00 a.m4:30 p.m.         718-656-0335           New York La Guardia, NY         718-995-5426         8:00 a.m4:30 p.m.         718-655-3103           Newark Liberty Intl, NJ         718-995-5426         8:00 a.m4:30 p.m.         973-645-3103           Norman Y. Mineta San Jose Intl, CA         310-643-3200         7:30 a.m4:00 p.m.         909-983-7518           Orlando Intl, FL         404-305-5180         7:30 a.m4:00 p.m.         909-983-7518           Orlando Intl, FL         404-305-5180         7:30 a.m4:00 p.m.         215-492-4100           Phoenix Sky Harbor Intl, AZ         310-643-3200         7:30 a.m4:00 p.m.         602-379-4226           Pittsburgh Intl, PA         718-995-5426         8:00 a.m4:30 p.m.         919-840-554           Roleigh-Durham, NC         404-305-5180         8:00 a.m4:30 p.m.         919-840-554           Ronald Rea				
Miami Intl, FL         404–305–5180         7:00 a.m4:00 p.m.         305–869–5400           Minneapolis/St. Paul, MN         847–294–8400         8:00 a.m4:00p.m.         612–713–4000           Nashville Intl, TN         404–305–5180         7:00 a.m3:30 p.m.         615–781–5460           New York Kennedy Intl, NY         718–995–5426         8:00 a.m4:30 p.m.         718–656–0335           New York La Guardia, NY         718–995–5426         8:00 a.m4:30 p.m.         718–335–5461           Newark Liberty Intl, NJ         718–995–5426         8:00 a.m4:30 p.m.         973–645–3103           Norman Y. Mineta San Jose Intl, CA         310–643–3200         7:30 a.m4:00 p.m.         408–982–0750           Orlario Intl, CA         310–643–3200         7:30 a.m4:00 p.m.         407–850–7000           Philadelphia Intl, PA         718–995–5426         8:00 a.m4:30 p.m.         215–492–4100           Phoenix Sky Harbor Intl, AZ         310–643–3200         7:30 a.m4:00 p.m.         602–379–4226           Pittsburgh Intl, PA         718–995–5426         8:00 a.m4:30 p.m.         215–492–4100           Portland Intl, OR         425–227–1389         7:30 a.m4:00 p.m.         602–379–4226           Pittsburgh Intl, OR         425–227–1389         7:30 a.m4:30 p.m.         703–413–1535           Sa	=			
Minneapolis/St. Paul, MN         847-294-8400         8:00 a.m4:00p.m.         612-713-4000           Nashville Intl, TN         404-305-5180         7:00 a.m3:30 p.m.         615-781-5460           New York Kennedy Intl, NY         718-995-5426         8:00 a.m4:30 p.m.         718-656-0335           New York La Guardia, NY         718-995-5426         8:00 a.m4:30 p.m.         718-935-5461           Newark Liberty Intl, NJ         718-995-5426         8:00 a.m4:00 p.m.         973-645-3103           Norman Y. Mineta San Jose Intl, CA         310-643-3200         7:30 a.m4:00 p.m.         909-983-7518           Orlardo Intl, CA         310-643-3200         7:30 a.m4:00 p.m.         909-983-7518           Orlardo Intl, FL         404-305-5180         7:30 a.m4:00 p.m.         907-850-7000           Philadelphia Intl, PA         718-995-5426         8:00 a.m4:30 p.m.         215-492-4100           Phoenix Sky Harbor Intl, AZ         310-643-3200         7:30 a.m4:00 p.m.         602-379-4226           Pittsburgh Intl, PA         718-995-5426         8:00 a.m4:30 p.m.         412-269-9237           Portland Intl, OR         425-227-1389         7:30 a.m4:00 p.m.         503-493-7500           Raleigh-Durham, NC         404-305-5180         8:00 a.m4:30 p.m.         703-413-1535           S			· ·	
Nashville Intl, TN         404–305–5180         7:00 a.m3:30 p.m.         615–781–5460           New York Kennedy Intl, NY         718–995–5426         8:00 a.m4:30 p.m.         718–656–0335           New York La Guardia, NY         718–995–5426         8:00 a.m4:30 p.m.         718–355–5461           Newark Liberty Intl, NJ         718–995–5426         8:00 a.m4:30 p.m.         973–645–3103           Norman Y. Mineta San Jose Intl, CA         310–643–3200         7:30 a.m4:00 p.m.         408–982–0750           Ontario Intl, CA         310–643–3200         7:30 a.m4:00 p.m.         909–983–7518           Orlando Intl, FL         404–305–5180         7:30 a.m4:00 p.m.         407–850–7000           Philadelphia Intl, PA         718–995–5426         8:00 a.m4:30 p.m.         215–492–4100           Phoenix Sky Harbor Intl, AZ         310–643–3200         7:30 a.m4:00 p.m.         602–379–4226           Pittsburgh Intl, PA         718–995–5426         8:00 a.m4:30 p.m.         412–269–9237           Portland Intl, OR         425–227–1389         7:30 a.m4:00 p.m.         503–493–7500           Raleigh-Durham, NC         404–305–5180         8:00 a.m4:30 p.m.         703–413–1535           Salt Lake City, UT         425–227–1389         7:30 a.m4:00 p.m.         801–325–9600           San Ju				
New York Kennedy Intl, NY         718–995–5426         8:00 a.m4:30 p.m.         718–656–0335           New York La Guardia, NY         718–995–5426         8:00 a.m4:30 p.m.         718–335–5461           Newark Liberty Intl, NJ         718–995–5426         8:00 a.m4:30 p.m.         973–645–3103           Norman Y. Mineta San Jose Intl, CA         310–643–3200         7:30 a.m4:00 p.m.         909–983–7518           Ontario Intl, CA         310–643–3200         7:30 a.m4:00 p.m.         909–983–7518           Orlando Intl, FL         404–305–5180         7:30 a.m4:00 p.m.         407–850–7000           Philadelphia Intl, PA         718–995–5426         8:00 a.m4:30 p.m.         215–492–4100           Phoenix Sky Harbor Intl, AZ         310–643–3200         7:30 a.m4:00 p.m.         602–379–4226           Pittsburgh Intl, PA         718–995–5426         8:00 a.m4:30 p.m.         412–269–9237           Portland Intl, OR         425–227–1389         7:30 a.m4:00 p.m.         503–493–7500           Raleigh-Durham, NC         404–305–5180         8:00 a.m4:30 p.m.         919–840–5544           Ronald Reagan Washington         National, DC         718–995–5426         8:00 a.m4:30 p.m.         703–413–1535           Salt Lake City, UT         425–227–1389         7:30 a.m4:00 p.m.         619–299–6077				
New York La Guardia, NY         718–995–5426         8:00 a.m4:30 p.m.         718–335–5461           Newark Liberty Intl, NJ         718–995–5426         8:00 a.m4:30 p.m.         973–645–3103           Norman Y. Mineta San Jose Intl, CA         310–643–3200         7:30 a.m4:00 p.m.         408–982–0750           Ontario Intl, CA         310–643–3200         7:30 a.m4:00 p.m.         909–983–7518           Orlando Intl, FL         404–305–5180         7:30 a.m5:00 p.m.         407–850–7000           Philadelphia Intl, PA         718–995–5426         8:00 a.m4:30 p.m.         215–492–4100           Phoenix Sky Harbor Intl, AZ         310–643–3200         7:30 a.m4:00 p.m.         602–379–4226           Pittsburgh Intl, PA         718–995–5426         8:00 a.m4:30 p.m.         412–269–9237           Portland Intl, OR         425–227–1389         7:30 a.m4:00 p.m.         503–493–7500           Raleigh-Durham, NC         404–305–5180         8:00 a.m4:30 p.m.         919–840–5544           Ronald Reagan Washington         National, DC         718–995–5426         8:00 a.m4:30 p.m.         703–413–1535           Salt Lake City, UT         425–227–1389         7:30 a.m4:00 p.m.         801–325–9600           San Antonio Intl, TX         817–222–5006         8:00 a.m4:30 p.m.         619–299–0677 </td <td></td> <td></td> <td>· ·</td> <td></td>			· ·	
Newark Liberty Intl, NJ         718–995–5426         8:00 a.m4:30 p.m.         973–645–3103           Norman Y, Mineta San Jose Intl, CA         310–643–3200         7:30 a.m4:00 p.m.         408–982–0750           Ontario Intl, CA         310–643–3200         7:30 a.m4:00 p.m.         909–983–7518           Orlando Intl, FL         404–305–5180         7:30 a.m5:00 p.m.         407–850–7000           Philadelphia Intl, PA         718–995–5426         8:00 a.m4:30 p.m.         215–492–4100           Phoenix Sky Harbor Intl, AZ         310–643–3200         7:30 a.m4:00 p.m.         602–379–4226           Pittsburgh Intl, PA         718–995–5426         8:00 a.m4:30 p.m.         412–269–9237           Portland Intl, OR         425–227–1389         7:30 a.m4:00 p.m.         503–493–7500           Raleigh-Durham, NC         404–305–5180         8:00 a.m4:30 p.m.         919–840–5544           Ronald Reagan Washington         National, DC         718–995–5426         8:00 a.m4:30 p.m.         703–413–1535           Salt Lake City, UT         425–227–1389         7:30 a.m4:00 p.m.         801–325–9600           San Antonio Intl, TX         817–222–5006         8:00 a.m4:30 p.m.         619–299–0677           San Erancisco Intl, CA         310–725–3300         8:00 a.m4:30 p.m.         650–876–2883 <td></td> <td></td> <td></td> <td></td>				
Norman Y. Mineta San Jose Intl, CA         310–643–3200         7:30 a.m4:00 p.m.         408–982–0750           Ontario Intl, CA         310–643–3200         7:30 a.m4:00 p.m.         909–983–7518           Orlando Intl, FL         404–305–5180         7:30 a.m5:00 p.m.         407–850–7000           Philadelphia Intl, PA         718–995–5426         8:00 a.m4:30 p.m.         215–492–4100           Phoenix Sky Harbor Intl, AZ         310–643–3200         7:30 a.m4:00 p.m.         602–379–4226           Pittsburgh Intl, PA         718–995–5426         8:00 a.m4:30 p.m.         412–269–9237           Portland Intl, OR         425–227–1389         7:30 a.m4:00 p.m.         503–493–7500           Raleigh-Durham, NC         404–305–5180         8:00 a.m4:30 p.m.         919–840–5544           Ronald Reagan Washington         718–995–5426         8:00 a.m4:30 p.m.         703–413–1535           Salt Lake City, UT         425–227–1389         7:30 a.m4:00 p.m.         801–325–9600           San Diego Lindbergh Intl, CA         310–725–3300         8:00 a.m4:30 p.m.         619–299–0677           San Francisco Intl, CA         310–643–3200         7:00 a.m3:30 p.m.         650–876–2883           San Juan Intl, PR         404–305–5180         7:30 a.m5:00 p.m.         809–253–8663           Seat				
Ontario Intl, CA         310–643–3200         7:30 a.m4:00 p.m.         909–983–7518           Orlando Intl, FL         404–305–5180         7:30 a.m5:00 p.m.         407–850–7000           Philadelphia Intl, PA         718–995–5426         8:00 a.m4:30 p.m.         215–492–4100           Phoenix Sky Harbor Intl, AZ         310–643–3200         7:30 a.m4:00 p.m.         602–379–4226           Pittsburgh Intl, PA         718–995–5426         8:00 a.m4:30 p.m.         412–269–9237           Portland Intl, OR         425–227–1389         7:30 a.m4:00 p.m.         503–493–7500           Raleigh-Durham, NC         404–305–5180         8:00 a.m4:30 p.m.         919–840–5544           Ronald Reagan Washington         National, DC         718–995–5426         8:00 a.m4:30 p.m.         703–413–1535           Salt Lake City, UT         425–227–1389         7:30 a.m4:00 p.m.         801–325–9600           San Antonio Intl, TX         817–222–5006         8:00 a.m4:30 p.m.         210–805–5507           San Diego Lindbergh Intl, CA         310–725–3300         8:00 a.m4:30 p.m.         619–299–0677           San Juan Intl, PR         404–305–5180         7:30 a.m4:00 p.m.         650–876–2883           Seattle–Tacoma Intl, WA         425–227–1389         7:30 a.m4:00 p.m.         206–768–2900				
Orlando Intl, FL         404-305-5180         7:30 a.m5:00 p.m.         407-850-7000           Philadelphia Intl, PA         718-995-5426         8:00 a.m4:30 p.m.         215-492-4100           Phoenix Sky Harbor Intl, AZ         310-643-3200         7:30 a.m4:00 p.m.         602-379-4226           Pittsburgh Intl, PA         718-995-5426         8:00 a.m4:30 p.m.         412-269-9237           Portland Intl, OR         425-227-1389         7:30 a.m4:00 p.m.         503-493-7500           Raleigh-Durham, NC         404-305-5180         8:00 a.m4:30 p.m.         919-840-5544           Ronald Reagan Washington         National, DC         718-995-5426         8:00 a.m4:30 p.m.         703-413-1535           Salt Lake City, UT         425-227-1389         7:30 a.m4:00 p.m.         801-325-9600           San Antonio Intl, TX         817-222-5006         8:00 a.m4:30 p.m.         210-805-5507           San Diego Lindbergh Intl, CA         310-725-3300         8:00 a.m4:30 p.m.         619-299-0677           San Francisco Intl, CA         310-643-3200         7:00 a.m3:30 p.m.         650-876-2883           San Juan Intl, PR         404-305-5180         7:30 a.m4:00 p.m.         206-768-2900           St. Louis Lambert, MO         816-329-3000         7:30 a.m4:00 p.m.         314-890-1000			· ·	
Philadelphia Intl, PA         718–995–5426         8:00 a.m4:30 p.m.         215–492–4100           Phoenix Sky Harbor Intl, AZ         310–643–3200         7:30 a.m4:00 p.m.         602–379–4226           Pittsburgh Intl, PA         718–995–5426         8:00 a.m4:30 p.m.         412–269–9237           Portland Intl, OR         425–227–1389         7:30 a.m4:00 p.m.         503–493–7500           Raleigh-Durham, NC         404–305–5180         8:00 a.m4:30 p.m.         919–840–5544           Ronald Reagan Washington         National, DC         718–995–5426         8:00 a.m4:30 p.m.         703–413–1535           Salt Lake City, UT         425–227–1389         7:30 a.m4:00 p.m.         801–325–9600           San Antonio Intl, TX         817–222–5006         8:00 a.m4:30 p.m.         210–805–5507           San Diego Lindbergh Intl, CA         310–725–3300         8:00 a.m4:30 p.m.         619–299–0677           San Francisco Intl, CA         310–643–3200         7:00 a.m3:30 p.m.         650–876–2883           San Juan Intl, PR         404–305–5180         7:30 a.m4:00 p.m.         809–253–8663           Seattle–Tacoma Intl, WA         425–227–1389         7:30 a.m4:00 p.m.         314–890–1000           Tampa Intl, FL         404–305–5180         7:30 a.m4:00 p.m.         907–771–2700				
Phoenix Sky Harbor Intl, AZ         310–643–3200         7:30 a.m4:00 p.m.         602–379–4226           Pittsburgh Intl, PA         718–995–5426         8:00 a.m4:30 p.m.         412–269–9237           Portland Intl, OR         425–227–1389         7:30 a.m4:00 p.m.         503–493–7500           Raleigh-Durham, NC         404–305–5180         8:00 a.m4:30 p.m.         919–840–5544           Ronald Reagan Washington         718–995–5426         8:00 a.m4:30 p.m.         703–413–1535           Salt Lake City, UT         425–227–1389         7:30 a.m4:00 p.m.         801–325–9600           San Antonio Intl, TX         817–222–5006         8:00 a.m4:30 p.m.         210–805–5507           San Diego Lindbergh Intl, CA         310–725–3300         8:00 a.m4:30 p.m.         619–299–0677           San Francisco Intl, CA         310–643–3200         7:00 a.m3:30 p.m.         650–876–2883           San Juan Intl, PR         404–305–5180         7:30 a.m4:00 p.m.         809–253–8663           Seattle-Tacoma Intl, WA         425–227–1389         7:30 a.m4:00 p.m.         206–768–2900           St. Louis Lambert, MO         816–329–3000         7:30 a.m4:00 p.m.         314–890–1000           Tampa Intl, FL         404–305–5180         7:30 a.m4:00 p.m.         907–271–2700           Teterboro, NJ				
Pittsburgh Intl, PA         718–995–5426         8:00 a.m4:30 p.m.         412–269–9237           Portland Intl, OR         425–227–1389         7:30 a.m4:00 p.m.         503–493–7500           Raleigh-Durham, NC         404–305–5180         8:00 a.m4:30 p.m.         919–840–5544           Ronald Reagan Washington         National, DC         718–995–5426         8:00 a.m4:30 p.m.         703–413–1535           Salt Lake City, UT         425–227–1389         7:30 a.m4:00 p.m.         801–325–9600           San Antonio Intl, TX         817–222–5006         8:00 a.m4:30 p.m.         619–299–0677           San Diego Lindbergh Intl, CA         310–643–3200         7:00 a.m3:30 p.m.         650–876–2883           San Juan Intl, PR         404–305–5180         7:30 a.m5:00 p.m.         809–253–8663           Seattle-Tacoma Intl, WA         425–227–1389         7:30 a.m4:00 p.m.         206–768–2900           St. Louis Lambert, MO         816–329–3000         7:30 a.m4:00 p.m.         314–890–1000           Tampa Intl, FL         404–305–5180         7:30 a.m4:00 p.m.         813–371–7700           Teterboro, NJ         718–995–5426         8:00 a.m4:30 p.m.         907–271–270           Washington Dulles Intl, DC         718–995–5426         8:00 a.m4:00 p.m.         907–271–2706				
Portland Intl, OR         425–227–1389         7:30 a.m4:00 p.m.         503–493–7500           Raleigh-Durham, NC         404–305–5180         8:00 a.m4:30 p.m.         919–840–5544           Ronald Reagan Washington         718–995–5426         8:00 a.m4:30 p.m.         703–413–1535           Salt Lake City, UT         425–227–1389         7:30 a.m4:00 p.m.         801–325–9600           San Antonio Intl, TX         817–222–5006         8:00 a.m4:30 p.m.         210–805–5507           San Diego Lindbergh Intl, CA         310–725–3300         8:00 a.m4:30 p.m.         619–299–0677           San Francisco Intl, CA         310–643–3200         7:00 a.m3:30 p.m.         650–876–2883           San Juan Intl, PR         404–305–5180         7:30 a.m5:00 p.m.         809–253–8663           Seattle–Tacoma Intl, WA         425–227–1389         7:30 a.m4:00 p.m.         206–768–2900           St. Louis Lambert, MO         816–329–3000         7:30 a.m4:00 p.m.         314–890–1000           Tampa Intl, FL         404–305–5180         7:30 a.m4:00 p.m.         813–371–7700           Ted Stevens Anchorage Intl, AK         907–271–5936         7:30 a.m4:00 p.m.         907–271–2700           Teterboro, NJ         718–995–5426         8:00 a.m4:30 p.m.         201–288–1889           Washington Dulle			· ·	
Raleigh-Durham, NC       404-305-5180       8:00 a.m4:30 p.m.       919-840-5544         Ronald Reagan Washington       718-995-5426       8:00 a.m4:30 p.m.       703-413-1535         Salt Lake City, UT       425-227-1389       7:30 a.m4:00 p.m.       801-325-9600         San Antonio Intl, TX       817-222-5006       8:00 a.m4:30 p.m.       210-805-5507         San Diego Lindbergh Intl, CA       310-725-3300       8:00 a.m4:30 p.m.       619-299-0677         San Francisco Intl, CA       310-643-3200       7:00 a.m3:30 p.m.       650-876-2883         San Juan Intl, PR       404-305-5180       7:30 a.m5:00 p.m.       809-253-8663         Seattle-Tacoma Intl, WA       425-227-1389       7:30 a.m4:00 p.m.       206-768-2900         St. Louis Lambert, MO       816-329-3000       7:30 a.m4:00 p.m.       314-890-1000         Tampa Intl, FL       404-305-5180       7:30 a.m4:00 p.m.       813-371-7700         Ted Stevens Anchorage Intl, AK       907-271-5936       7:30 a.m4:00 p.m.       907-271-2700         Teterboro, NJ       718-995-5426       8:00 a.m4:30 p.m.       201-288-1889         Washington Dulles Intl, DC       718-995-5426       8:00 a.m4:30 p.m.       407-683-1867				
Ronald Reagan Washington         National, DC       718-995-5426       8:00 a.m4:30 p.m.       703-413-1535         Salt Lake City, UT       425-227-1389       7:30 a.m4:00 p.m.       801-325-9600         San Antonio Intl, TX       817-222-5006       8:00 a.m4:30 p.m.       210-805-5507         San Diego Lindbergh Intl, CA       310-725-3300       8:00 a.m4:30 p.m.       619-299-0677         San Francisco Intl, CA       310-643-3200       7:00 a.m3:30 p.m.       650-876-2883         San Juan Intl, PR       404-305-5180       7:30 a.m5:00 p.m.       809-253-8663         Seattle-Tacoma Intl, WA       425-227-1389       7:30 a.m4:00 p.m.       206-768-2900         St. Louis Lambert, MO       816-329-3000       7:30 a.m4:00 p.m.       314-890-1000         Tampa Intl, FL       404-305-5180       7:30 a.m4:00 p.m.       813-371-7700         Ted Stevens Anchorage Intl, AK       907-271-5936       7:30 a.m4:00 p.m.       907-271-2700         Teterboro, NJ       718-995-5426       8:00 a.m4:30 p.m.       201-288-1889         Washington Dulles Intl, DC       718-995-5426       8:00 a.m4:30 p.m.       407-683-1867         West Palm Beach, FL       404-305-5180       8:00 a.m4:30 p.m.       407-683-1867				
National, DC         718–995–5426         8:00 a.m4:30 p.m.         703–413–1535           Salt Lake City, UT         425–227–1389         7:30 a.m4:00 p.m.         801–325–9600           San Antonio Intl, TX         817–222–5006         8:00 a.m4:30 p.m.         210–805–5507           San Diego Lindbergh Intl, CA         310–725–3300         8:00 a.m4:30 p.m.         619–299–0677           San Francisco Intl, CA         310–643–3200         7:00 a.m3:30 p.m.         650–876–2883           San Juan Intl, PR         404–305–5180         7:30 a.m5:00 p.m.         809–253–8663           Seattle–Tacoma Intl, WA         425–227–1389         7:30 a.m4:00 p.m.         206–768–2900           St. Louis Lambert, MO         816–329–3000         7:30 a.m4:00 p.m.         314–890–1000           Tanga Intl, FL         404–305–5180         7:30 a.m4:00 p.m.         813–371–7700           Ted Stevens Anchorage Intl, AK         907–271–5936         7:30 a.m4:00 p.m.         907–271–2700           Teterboro, NJ         718–995–5426         8:00 a.m4:30 p.m.         201–288–1889           Washington Dulles Intl, DC         718–995–5426         8:00 a.m4:30 p.m.         407–683–1867           West Palm Beach, FL         404–305–5180         8:00 a.m4:30 p.m.         407–683–1867				
Salt Lake City, UT       425–227–1389       7:30 a.m4:00 p.m.       801–325–9600         San Antonio Intl, TX       817–222–5006       8:00 a.m4:30 p.m.       210–805–5507         San Diego Lindbergh Intl, CA       310–725–3300       8:00 a.m4:30 p.m.       619–299–0677         San Francisco Intl, CA       310–643–3200       7:00 a.m3:30 p.m.       650–876–2883         San Juan Intl, PR       404–305–5180       7:30 a.m5:00 p.m.       809–253–8663         Seattle–Tacoma Intl, WA       425–227–1389       7:30 a.m4:00 p.m.       206–768–2900         St. Louis Lambert, MO       816–329–3000       7:30 a.m4:00 p.m.       314–890–1000         Tampa Intl, FL       404–305–5180       7:30 a.m4:00 p.m.       813–371–7700         Ted Stevens Anchorage Intl, AK       907–271–5936       7:30 a.m4:00 p.m.       907–271–2700         Teterboro, NJ       718–995–5426       8:00 a.m4:30 p.m.       201–288–1889         Washington Dulles Intl, DC       718–995–5426       8:00 a.m4:30 p.m.       703–661–6031         West Palm Beach, FL       404–305–5180       8:00 a.m4:30 p.m.       407–683–1867		718-995-5426	8:00 a.m4:30 p.m.	703-413-1535
San Antonio Intl, TX         817–222–5006         8:00 a.m4:30 p.m.         210–805–5507           San Diego Lindbergh Intl, CA         310–725–3300         8:00 a.m4:30 p.m.         619–299–0677           San Francisco Intl, CA         310–643–3200         7:00 a.m3:30 p.m.         650–876–2883           San Juan Intl, PR         404–305–5180         7:30 a.m5:00 p.m.         809–253–8663           Seattle-Tacoma Intl, WA         425–227–1389         7:30 a.m4:00 p.m.         206–768–2900           St. Louis Lambert, MO         816–329–3000         7:30 a.m4:00 p.m.         314–890–1000           Tampa Intl, FL         404–305–5180         7:30 a.m4:00 p.m.         813–371–7700           Ted Stevens Anchorage Intl, AK         907–271–5936         7:30 a.m4:00 p.m.         907–271–2700           Teterboro, NJ         718–995–5426         8:00 a.m4:30 p.m.         201–288–1889           Washington Dulles Intl, DC         718–995–5426         8:00 a.m4:30 p.m.         703–661–6031           West Palm Beach, FL         404–305–5180         8:00 a.m4:30 p.m.         407–683–1867				
San Francisco Intl, CA       310–643–3200       7:00 a.m3:30 p.m.       650–876–2883         San Juan Intl, PR       404–305–5180       7:30 a.m5:00 p.m.       809–253–8663         Seattle-Tacoma Intl, WA       425–227–1389       7:30 a.m4:00 p.m.       206–768–2900         St. Louis Lambert, MO       816–329–3000       7:30 a.m4:00 p.m.       314–890–1000         Tampa Intl, FL       404–305–5180       7:30 a.m4:00 p.m.       813–371–7700         Ted Stevens Anchorage Intl, AK       907–271–5936       7:30 a.m4:00 p.m.       907–271–2700         Teterboro, NJ       718–995–5426       8:00 a.m4:30 p.m.       201–288–1889         Washington Dulles Intl, DC       718–995–5426       8:00 a.m4:30 p.m.       703–661–6031         West Palm Beach, FL       404–305–5180       8:00 a.m4:30 p.m.       407–683–1867		817-222-5006		
San Juan Intl, PR     404–305–5180     7:30 a.m5:00 p.m.     809–253–8663       Seattle–Tacoma Intl, WA     425–227–1389     7:30 a.m4:00 p.m.     206–768–2900       St. Louis Lambert, MO     816–329–3000     7:30 a.m4:00 p.m.     314–890–1000       Tampa Intl, FL     404–305–5180     7:30 a.m4:00 p.m.     813–371–7700       Ted Stevens Anchorage Intl, AK     907–271–5936     7:30 a.m4:00 p.m.     907–271–2700       Teterboro, NJ     718–995–5426     8:00 a.m4:30 p.m.     201–288–1889       Washington Dulles Intl, DC     718–995–5426     8:00 a.m4:30 p.m.     703–661–6031       West Palm Beach, FL     404–305–5180     8:00 a.m4:30 p.m.     407–683–1867	San Diego Lindbergh Intl, CA	310-725-3300		619-299-0677
Seattle-Tacoma Intl, WA     425-227-1389     7:30 a.m4:00 p.m.     206-768-2900       St. Louis Lambert, MO     816-329-3000     7:30 a.m4:00 p.m.     314-890-1000       Tampa Intl, FL     404-305-5180     7:30 a.m4:00 p.m.     813-371-7700       Ted Stevens Anchorage Intl, AK     907-271-5936     7:30 a.m4:00 p.m.     907-271-2700       Teterboro, NJ     718-995-5426     8:00 a.m4:30 p.m.     201-288-1889       Washington Dulles Intl, DC     718-995-5426     8:00 a.m4:30 p.m.     703-661-6031       West Palm Beach, FL     404-305-5180     8:00 a.m4:30 p.m.     407-683-1867	San Francisco Intl, CA	310-643-3200	7:00 a.m3:30 p.m.	650-876-2883
St. Louis Lambert, MO     816–329–3000     7:30 a.m4:00 p.m.     314–890–1000       Tampa Intl, FL     404–305–5180     7:30 a.m4:00 p.m.     813–371–7700       Ted Stevens Anchorage Intl, AK     907–271–5936     7:30 a.m4:00 p.m.     907–271–2700       Teterboro, NJ     718–995–5426     8:00 a.m4:30 p.m.     201–288–1889       Washington Dulles Intl, DC     718–995–5426     8:00 a.m4:30 p.m.     703–661–6031       West Palm Beach, FL     404–305–5180     8:00 a.m4:30 p.m.     407–683–1867	San Juan Intl, PR	404-305-5180	7:30 a.m5:00 p.m.	809-253-8663
Tampa Intl, FL     404–305–5180     7:30 a.m4:00 p.m.     813–371–7700       Ted Stevens Anchorage Intl, AK     907–271–5936     7:30 a.m4:00 p.m.     907–271–2700       Teterboro, NJ     718–995–5426     8:00 a.m4:30 p.m.     201–288–1889       Washington Dulles Intl, DC     718–995–5426     8:00 a.m4:30 p.m.     703–661–6031       West Palm Beach, FL     404–305–5180     8:00 a.m4:30 p.m.     407–683–1867			· ·	
Ted Stevens Anchorage Intl, AK       907–271–5936       7:30 a.m4:00 p.m.       907–271–2700         Teterboro, NJ       718–995–5426       8:00 a.m4:30 p.m.       201–288–1889         Washington Dulles Intl, DC       718–995–5426       8:00 a.m4:30 p.m.       703–661–6031         West Palm Beach, FL       404–305–5180       8:00 a.m4:30 p.m.       407–683–1867		816-329-3000	7:30 a.m4:00 p.m.	314-890-1000
Teterboro, NJ         718–995–5426         8:00 a.m4:30 p.m.         201–288–1889           Washington Dulles Intl, DC         718–995–5426         8:00 a.m4:30 p.m.         703–661–6031           West Palm Beach, FL         404–305–5180         8:00 a.m4:30 p.m.         407–683–1867				
Washington Dulles Intl, DC       718–995–5426       8:00 a.m4:30 p.m.       703–661–6031         West Palm Beach, FL       404–305–5180       8:00 a.m4:30 p.m.       407–683–1867	9 .		· ·	
West Palm Beach, FL 404–305–5180 8:00 a.m4:30 p.m. 407–683–1867				
Westchester Co, NY 718–995–5426 8:00 a.m.–4:30 p.m. 914–948–6520				
	Westchester Co, NY	718–995–5426	8:00 a.m4:30 p.m.	914–948–6520

<sup>\*</sup>Facilities can be contacted through the RgnI Duty Officer during non-business hours.

Air Route Traffic Control Center frequencies and their remoted transmitter sites are listed below for the coverage of this volume. Bold face type indicates high altitude frequencies, light face type indicates low altitude frequencies. To insure unrestricted IFR operations within the high altitude enroute sectors, the use of 720 channel communications equipment (25 kHz channel) spacing is required.

RALBUQUERQUE CENTER 134.6 132.8

H-4-5-6-7, L-5-6-7-8-10-15-17-19

(KZAB)

Amarillo Nr 1 - 127.85

Amarillo Nr 2 - 134.75

El Paso A - 135.875 134.175

El Paso B - 128.2 125.525

Fort Stockton - 135.875 132.2 120.975

Mount Dora - 133.05 127.852

H-6, L-6-15-17-18-19-21-22

(KZFW)

RFORT WORTH CENTER 134.4

Abilene - 134.25 127.45

**Ardmore - 132.975** 128.1

**Big Spring -** 133.7

Blue Ridge A - 124.875 Blue Ridge B - 127.6

Brownwood - 127.45

Clinton-Sherman - 132.45 128.4 126.3 Cumby - 132.85 132.02 126.575

Dublin - 128.325

Dublin A - 135.375

**Dublin B -** 127.15

El Dorado - 128.2

Frankston - 135.25 134.025

Gainsville - 126.775 124.75

Keller - 135.275 134.15 133.25

Lubbock - 132.6 126.45 120.775

Marshall - 135.1 128.125

McAlester - 135.45 132.2

Midland A - 133.1 **132.075** 

Mineral Wells - 127.0 120.35

Monroe - 126.325

Oklahoma City - 133.9 132.45

Paducah - 134.55 133.5 126.45 120.775

Paris - 124.875

**Plainview - 126.45** 

San Angelo - 126.15 120.275

Scurry - 135.75 126.725

Shreveport - 133.875 132.275 126.325

Snyder - 132.6

Texarkana - 134.475 126.575 123.925

Tyler - 135.25 134.025

Waco - 133.3

Wichita Falls Nr1 - 132.925 124.525

Wichita Falls Nr2 - 133.5 127.95

#### RHOUSTON CENTER - 134.35

H-6-7-8-9. L-17-18-19-20-21-22

Arr-Dep US - 135.77 134.95 133.75 133.4 132.65 132.4 128.3 127.8 125.75 120.35

(KZHU)

Alexandria - 132.7 127.85 120.975

Austin - 132.725 125.65

Beaumont - 133.8 126.95

Cameron County - 132.65 132.65

College Station - 135.325 134.8 134.5 125.15 120.4

Fredericksburg - 134.2 132.725

Galveston - 133.8

Galveston A - 133.4

Grand Isle - 134.9 132.175

Hattiesburg - 126.8 119.725

Houma - 132.65 132.65

Intracoastal City - 120.35

Kerrville - 134.95

Kingsville - 133.75 128.15

Lacombe - 126.875

Lafayette - 133.65 126.35

Lake Charles - 132.95 124.7

Laredo - 128.6 127.8 126.75

Lometa - 132.35

Lufkin - 134.8 133.575 132.775 126.95 125.17

McComb - 126.8

Mobile - 132.6 125.775

Natchez - 120.97

Newton - 134.8 126.95

New Orleans - 126.35 127.0

Palacios - 132.15 128.6

Rockport - 135.47 134.6 128.15 Rocksprings - 132.4 125.75

San Antonio - 134.95 132.8 125.25

San Antonio A - 134.6 126.425 120.6

Sealv - 132.15 126.425 119.175

Uvalde - 134.95 126.1

Vermillion - 120.35

Victoria - 135.05

#### RKANSAS CITY CENTER - 132.325

H-5-6, L-10-15-16-27, A-2

(KZKC)

Chanute - 132.9

Gage - 126.95

Liberal - 134.675 134.0

Oklahoma City - 128.3

Ponca City - 127.8

Tulsa - 125.825 128.8

#### R MEMPHIS CENTER - 127.975 124.025

Brinkley - 135.3 124.025 126.85

Columbus - 134.775 133.125 127.1

Fayetteville - 132.55 126.1

Fort Smith - 126.1

Greenville - 135.875 133.075 124.925

Greenwood - 132.5 127.425

Harrison - 126.85

Hot Springs - 128.475

Jackson - 132.5

Louisville - 132.75

McKellar- 134.65 127.975 126.45 124.35

Meridian - 128.275 125.975

Pine Bluff - 135.875 132.425 125.475

Russellville - 128.475

Tupelo - 135.9 135.9 134.4 128.5 127.375

Walnut Ridge - 132.375 120.075

H-5-6-9, L-15-16-17-18-22-25-26

(KZME)

#### FLIGHT SERVICE STATION COMMUNICATION FREQUENCIES

VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. Frequencies in bold type are available all altitudes but recommended for use FL180 and above. "T" indicates transmit only and "R" indicates receive only. RCO's available at NAVAID's are listed after the NAVAID name. RCO's not at NAVAID's are listed by name.

#### ALBUOUEROUE AFSS 122.55

EL PASO RCO 122.4 122.55 FORT STOCKTON VORTAC 116.9T 122.1R GUADALUPE PASS RCO 122.35 MARFA VOR/DME 115.9T 122.1R

#### **DE RIDDER AFSS**

382

BATON ROUGE RCO 122.2
DE RIDDER RCO 122.2
DRISKILL MOUNTAIN RCO 122.35
ESLER RCO 122.55
HOUMA RCO 122.45
LAFAYETTE RCO 122.35
LAKE CHARLES RCO 122.3
LEEVILLE VORTAC 113.5T 122.1R
MANY RCO 122.15
MONROE RCO 122.25
NEW ORLEANS RCO 122.6
PATTERSON RCO 122.5
SHEWLED REVELLE ROUTE ROUTE

#### FORT WORTH AFSS 122.6

VERMILLION RCO 122.6

ABILENE RCO 122.65

AMARILLO RCO 122.65 BRECKENRIDGE RCO 122.5 BROWNWOOD RCO 122 5 CHILDRESS RCO 122.45 DALHART RCO 122.2 DALLAS RCO 122.3 GREGG COUNTY RCO 122.2 JACKSBORO RCO 122 4 LUBBOCK RCO 122.55 MINERAL WELLS RCO 122.2 PARIS RCO 122.25 PLAINVIEW RCO 122 55 SHERMAN/DENISON RCO 122.3 SNYDER RCO 122.45 **TYLER RCO 122.3** WACO RCO 122.15 WICHITA FALLS RCO 122.65

#### GREENWOOD AFSS

TUPELO RCO 122.5

BIGBEE RCO 123.65
EATON VORTAC 110.6T 122.1R
GREENVILLE VOR/DME 110.2T 122.1R
GREENWOOD RCO 122.2 122.55
GULFPORT VOR/DME 109.0T 122.1R
HOLLY SPRINGS VORTAC 112.4T 122.1R 122.3
JACKSON VORTAC 112.6T 122.1R 122.2 122.65
KEWANEE VORTAC 113.8T 122.1R
LAUREL RCO 122.3
MC COMB RCO 122.2 122.4
MC COMB VORTAC 116.7T 122.1R 122.2 122.4
MERIDIAN VORTAC 117.0T 122.1R 122.2 122.6
NATCHEZ VOR/DME 110.0T 122.1R
SIDON VORTAC 114.7T 122.1R
SIDON VORTAC 114.7T 122.1R

# JONESBORO AFSS 122.2 122.3

BATESVILLE RCO 122.25 EL DORADO RCO 122.65 FAYETTEVILLE RCO 122.3 FAYETTEVILLE (SPRINGDALE) RCO 122.55 FLIPPIN RCO 122.35 FORT SMITH RCO 122.2 HARRISON RCO 122.45 HOT SPRINGS VOR/DME 110.0T 122.1R

JONESBORO RCO 122.2 122.3 123.6 LITTLE ROCK RCO 122.55

MONTICELLO VOR/DME 111.6T 122.1R

PINE BLUFF RCO 122.6 SOCIAL HILL RCO 122.075 TEXARKANA RCO 122.45

WALNUT RIDGE VORTAC 114.5T 122.1R

#### MC ALESTER AFSS

ADA RCO 122.45 ARDMORE RCO 122.55 BARTLESVILLE RCO 123.6 **GAGE RCO 122.55** HOBART RCO 122.2 MC ALESTER RCO 122.65 123.6 MUSKOGEE RCO 122.5 **NORMAN RCO 122.15** PONCA CITY RCO 122.25 RICH MOUNTAIN RCO 122.6 SAYRE VORTAC 115.2T 122.1R STILLWATER VOR/DME 108.4T 122.1R 122.3 TULSA RCO 122.2 123.65 WILEY POST RCO 122.4 122.65 WOODRING RCO 122.6

# **MONTGOMERY COUNTY AFSS**

BEAUMONT RCO 122.2 CENTER RCO 122.6 COLLEGE STATION RCO 122.2 122.65 FAST BREAKS RCO 122 5 GALVESTON RCO 122.15 122.2 HIGH ISLAND RCO 122.35 HOBBY RCO 122.35 HOUSTON RCO 122.4 HUNTSVILLE RCO 122.3 JASPER RCO 122.5 LUFKIN RCO 122.2 MONTGOMERY COUNTY RCO 122.0 122.2 PALACIOS RCO 122.25 VICTORIA RCO 122.2

#### **SAN ANGELO AFSS**

ALICE RCO 122.6 AUSTIN RCO 122.55 BIG SPRING RCO 122.4 BROWNSVILLE RCO 122.3 CENTER POINT VORTAC 117.5T 122.1R CORPUS CHRISTI RCO 122.65 COTULLA RCO 122.2 **DEL RIO RCO 122.3** EAGLE PASS RCO 122.3 HARLINGEN RCO 122.35 JUNCTION RCO 122.3 LAMPASAS RCO 122.55 LAREDO RCO 122.3 MC ALLEN RCO 122.2 MIDLAND RCO 122.6 PECOS VOR/DME 111.8T 122.1R ROCKSPRINGS VORTAC 111.2T 122.1R SAN ANGELO RCO 122.25 SAN ANTONIO RCO 122.2 122.3 STONEWALL VORTAC 113.8T 122.1R TEMPLE VOR/DME 110.4T 122.1R THREE RIVERS VORTAC 111.4T 122.1R **UVALDE RCO 123.65** WINK RCO 122.05

384 **FSDO** 

# FLIGHT STANDARDS DISTRICT OFFICES (FSDO)

Below is a list of FSDO's in the area of coverage of this directory. These offices serve the aviation industry and the general public on matters relating to certification and operation of general aviation aircraft. Address letters to Manager, Flight Standards District Office-Federal Aviation Administration.

#### **ARKANSAS**

1701 Bond Street Little Rock, AR 72202

Telephone: 501 -918-4400

1-800-632-9566 (AR only)

#### **LOUISIANA**

9191 Plank Road Baton Rouge, LA 70811 Telephone: 225-358-6800 1-800-821-1960

### **MISSISSIPPI**

100 W. Cross Street, Suite C Jackson-Evers Intl Airport Jackson, MS 39208 Telephone: 601-664-9800

#### **OKLAHOMA**

The Parkway Building 1300 S. Meridian, Suite 601 Oklahoma City, OK 73108 Telephone: 405-951-4200

#### **TEXAS**

1431 Greenway Drive, Suite 1000

Irving, TX 75038

Telephone: 972-582-1800 972-582-1872 (Fax) 972-582-1862 (Fax)

14800 Trinity Blvd., Suite 200 Fort Worth, TX 76155 Telephone: 817-684-6700 817-684-6757 (Fax)

Route 3, Box 51 Lubbock, TX 79403-9712 Telephone: 806-740-3800

806-740-3809 (Fax) 1-800-858-4115

10100 Reunion Place, Suite 200 San Antonio, TX 78216-4128 Telephone: 210-308-3300

1-800-292-2023

2221 Alliance Blvd, Suite 400 Fort Worth, TX 76177 Telephone: 817-491-5000

13100 Space Center Blvd., Suite 5400 Houston, TX 77059-3598 Telephone: 281-212-9700

> 888-285-2127 (Toll free) 281-212-9759 (Fax)

# PREFERRED IFR ROUTES

A system of preferred routes has been established to guide pilots in planning their routes of flight to minimize route changes during the operational phase of flight, and to aid in the efficient orderly management of the air traffic using federal airways. The preferred IFR routes which follow are designed to serve the needs of airspace users and to provide for a systematic flow of air traffic in the major terminal and enroute flight environments. Cooperation by all pilots in filing preferred routes will result in fewer traffic delays and will better provide for efficient departure, enroute and arrival air traffic service.

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high altitude list is in two sections; the first section showing terminal to terminal routes and the second section showing single direction route segments. Also, on some high altitude routes low altitude airways are included as transition routes.

The following will explain the terms/abbreviations used in the listing:

- 1. Preferred routes beginning/ending with an airway number indicate that the airway essentially overlies the airport and flight are normally cleared directly on the airway.
- 2. Preferred IFR routes beginning/ending with a fix indicate that aircraft may be routed to/from these fixes via a Standard Instrument Departure (SID) route, radar vectors (RV), or a Standard Terminal Arrival Route (STAR).
- 3. Preferred IFR routes for major terminals selected are listed alphabetically under the name of the departure airport. Where several airports are in proximity they are listed under the principal airport and categorized as a metropolitan area; e.g., New York Metro Area.
- 4. Preferred IFR routes used in one direction only for selected segments, irrespective of point of departure or destination, are listed numerically showing the segment fixes and the direction and times effective.
  - 5. Where more than one route is listed the routes have equal priority for use.
  - 6. Official location identifiers are used in the route description for VOR/VORTAC navaids.
  - 7. Intersection names are spelled out.
- 8. Navaid radial and distance fixes (e.g., ARD201113) have been used in the route description in an expediency and intersection names will be assigned as soon as routine processing can be accomplished. Navaid radial (no distance stated) may be used to describe a route to intercept a specified airway (e.g., MIV MIV101 V39; another navaid radial (e.g., UIM UIM255 GSW081); or an intersection (e.g., GSW081 FITCH).
- 9. Where two navaids, an intersection and a navaid, a navaid and a navaid radial and distance point, or any navigable combination of these route descriptions follow in succession, the route is direct.
- 10. The effective times for the routes are in UTC. During periods of daylight saving time effective times will be one hour earlier than indicated. All states observe daylight saving time except Arizona, Puerto Rico and the Virgin Islands. Pilots planning flight between the terminals or route segments listed should file for the appropriate preferred IFR route.
  - 11. (90-170 incl) altitude flight level assignment in hundred of feet.
- 12. The notations "pressurized" and "unpressurized" for certain low altitude preferred routes to Kennedy Airport indicate the preferred route based on aircraft performance.
- 13. High Altitude Preferred IFR Routes are in effect during the following time periods unless otherwise noted.

Sun	1300-2259 local time.
Mon thru Fri	0701-2259 local time.
Sat	0701-1459 local time.

- $14. \ \mbox{Use}$  current SIDs and STARs for flight planning.
- 15. For high altitude routes, the portion of the routes contained in brackets is suggested but optional. The portion of the route outside the brackets will likely be required by the facilities involved.

#### LOW ALTITUDE

		Effective Times
Terminals	Route	(UTC)
DALLAS/FORT WORTH AREA		
Atlanta (ATL)	TTT084 SOLDO UIM V54 TXK V278 VUZ V417	
	MAYES V325 DALAS ATL	0000-2359
Chicago Midway (MDW)	FUZ022 MLC206 MLC V63 UIN V586 PIA PIA056	
	MOTIF JOT	0000-2359
Chicago O'Hare (ORD)	FUZ022 MLC206 MLC V63 UIN V586 PIA V262	
	BDF V10 PLANO	0000-2359
Houston Hobby (HOU)	V369 TNV	0000-2359
Memphis (MEM)	TTT084 SOLDO UIM V54 TXK V16 UJM	1200-1400
		and
		1800-0000
New Orleans (MSO)	TTT084 SOLDO UIM V114 VEILS	0000-2359
San Antonio (SAT)	ACT V358 STV	0000-2359
HOUSTON METRO AREA		
Dallas/Fort Worth Area (DFW)	V477 CQY	0000–2359
From GEORGE BUSH		
INTCNTL/HOUSTON (IAH):		
New Orleans (MSO)	(below FL180) TRIOS V222 LCH V20	1100-0300

Terminals From HOUSTON WILLIAM P HOBBY (HOU):	Route	Effective Times (UTC)
New Orleans (MSO)  NEW ORLEANS METRO AREA	(below FL180) V198 TBD V552	1100-0300
Dallas/Fort Worth (DFW)	RQR V566 AEX V114 GGG V94 CQY	0000-2359
Indianapolis (IND)	V14 SGF V190 PXV V11	0000-2359
Springfield (SPI) Terre Haute (HUF)	V14 SGF V63 UIN V50 V14 SGF V190 PXV V7	0000–2359 0000–2359
T	HIGH ALTITUDE	F#
Terminals	Route	Effective Times
BATON ROUGE METRO AREA		(UTC)
Atlanta (ATL)	GCV LGC-STARor	
Houston (HOU)	(RNAV only) GCV HONIE (RNAV)-STAR (GPS or DME/DME-IRU equipped) SALVO LFT ELAAN CLMBA COLUMBIA (RNAV)-STAR or	
	(Non-advanced NAV only) SALVO LFT LCH DAISETTA-STAR	
Houston (IAH)	(GPS OR DME/DEM-IRU EQUIPPED) SALVO LFT GIRLY WOLDE WOLDE (RNAV)-STAR or	
DALLAS/FORT WORTH METRO AREA	(Non-advanced NAV only) SALVO LFT LCH DAISETTA-STAR	
Baltimore (BWI)	TXK J42 BKW J147 CSN OTT-STAR	
	(GPS or DME/DME-IRU equipped) TXK J42 BKW J147 CSN RAVNN (RNAV)-STAR	
Boca Raton (BCT)	(GPS OR DME/DEM-IRU EQUIPPED) SWB MCB J50 CEW J2 SZW PRRIE (RNAV) STAR or	
Boston (BOS)	(GPS OR DME/DME-IRU EQUIPPED) SWB HRV Q105 REDFN Q100 SRQ PRRIE (RNAV STAR) TTT064 LIT235 LIT J131 PXV J29 JHW J82 ALB GDM-STAR	
Charlotte (CLT)	SQS J52 ATL GRD J209 RDU J207 FKN J79 JFK060060 ORW PVD V151 INNDY SQS J52 ATL UNARM-STAR	
	(Turbojets-GPS or DME/DME-IRU equipped) SQS J52 ATL ADENA (RNAV)-STAR	
Chicago Midway (MDW)	FUZ J181 MAGOO MOTIF-STAR	
Chicago O'Hare (ORD) Cincinnati (CVG)	FUZ J181 BDF BDF-STAR (RNAV only) TXK J42 MEM J29 PXV SARGO (RNAV)-STAR	1200-0400
Cleveland Metro Area (CLE) (CGF) (BLK)		
(LNN) (LPR) Denver (DEN)	PXV ABERZ-STARADM ADM303 ROLLS J52 LAA QUAIL-STAR	
Detroit Metro-Wayne (DTW) Detroit Metro Area (PTK), (YIP), (ARB)	LIT J131 PXV VHP FWA MIZAR-STAR TXK J131 PXV VHP FWA CRUXX-STAR	1200-0400
(DET), (CYQG)	TXK J131 PXV VHP FWA V96 VWV VWV051	
Fort Lauderdale (FLL)	POOFE(DME/DME-IRU OR GPS) SWB HRV Q105 BLVNS Q102 BAGGS JINGL (RNAV) STAR	
	or (all others) SWB HRV Q105 BLVNS Q102 BAGGS	
Houston (HOU)	RSW FORTL-STAR(Turbojets) JPOOL-DP ELLVR TEXNN-STAR	
Houston (IAH)	(Non-Turbojets) JPOOL-DP CLL BLUBL-STAR JPOOL-DP BILEE RIICE-STAR	

Terminals	Route	Effective Times (UTC)
Kennedy (JFK)	SQS J52 ATL GRD J209 ORF J121 SIE	(0.0)
	CAMRN-STAR	
La Guardia (LGA)	SQS J52 ATL AHN J208 HPW J191 PXT	
Louisville (IIU)	KORRY-STAR	
	or (all others) SWB MCB J50 CEW J2 SZW J43 PIE CYY-STAR	
	or (DME/DME/IRU OR GPS TURBOJET) SWB MCB J50 CEW J2 SZW SSCOT (RNAV)-STAR or	
	(DME/DME/IRU OR GPS TURBOJET) SWB HRV Q105 BLVNS Q102 BAGGS SSCOT (RNAV)-STAR	
Newark (EWR)	TXK J42 GVE DYLIN-STAR or	
Philadalphia (PHI)	(GPS or DME/DME-IRU equipped) TXK J42 GVE PHLBO (RNAV)-STAR  TXK J42 OTT DQO-STAR	
Philadelphia (PHL) Phoenix (PHX)	ABI J4 SSO J50 TOTEC	0100-0500
Pittsburgh (PIT)	TXK J42 MEM J29 PXV HNN WISKE-STARTTT275 GTH119 GTH GTH288 TCC105 TCC J76	
San Jose (SJC)	FTI J58 OAL MOD TTT275 GTH119 GTH GTH288 TCC105 TCC J76 FTI J58 OAL HYP	
West Palm Beach (PBI)	SWB HRV Q105 REDFN Q100 SRQ WLACE (RNAV)-STAR	
	or SWB MCB J50 CEW J2 SZW WLACE (RNAV)-STAR	
	or (GPS or DME/DME-IRU equipped) SWB MCB J50 CEW J2 SZW WLACE (RNAV)-STAR	
	(GPS or DME/DME-IRU equipped) SWB HRV	
GULFPORT	Q105 REDFN Q100 SRQ WLACE (RNAV)-STAR	
Houston (HOU)	(DME/DME-IRU or GPS-equipped) HRV	
Houston (IAH)	COLUMBIA (RNAV)-STAR(DME/DME-IRU or GPS-equipped) HRV WOLDE	
	(RNAV)-STAR	
Atlanta (ATL)	LAKE CHARLES-DP BTR GCV LGC-STAR	
B. 11. (B11)	(RNAV only) LAKE CHARLES-DP BTR GCV HONIE (RNAV)-STAR	
Baltimore (BWI)	(GPS or DME/DME-IRU equipped) GUSTI (RNAV)-DP SJI J37 SPA J14 RIC OTT-STAR or	
	(GPS or DME/DME-IRU equipped) GUSTI (RNAV)-DP SJI J37 SPA J14 RIC RAVNN	
Boca Raton (BCT)	(RNAV)-STAR (GPS or DME/DME-IRU equipped) SABINE PASS (RNAV)-DP LEV Q100 SRQ PRRIE (RNAV)-STAR or	
	(GPS or DME/DME-IRU equipped) SABINE PASS (RNAV)-DP LEV Q102 BAGGS JINGL	
Boston (BOS)	(RNAV)-STAR (GPS or DME/DME-IRU equipped) GUSTI (RNAV)-DP SJI J37 MGM MGM048/138 GRD	
Charletta (CLT)	J209 RDU J207 FKN J79 JFK ORW-STAR	
Charlotte (CLT)	LAKE CHARLES-DP BTR KALBE MEI J239 ATL UNARM-STAR	1400-0100

or

**Effective** 

		Times
Terminals	Route (Turbojets-GPS or DME/DME-IRU equipped)	(UTC)
	LAKE CHARLES-DP BTR KALBE MEI J239 ATL	
Chicago (ORD)	ADENA (RNAV)-STARLUFKIN-DP LIT J101 STL STL349 MAG00	1400-0100
	BDF-STAR	0111-2024 and
	or	2126–2359
	J33 FUZ J105 BDF-STAR	2025-2125
		and 0000-0110
	Or	
Cincinnati (CVG)	LUFKIN-DP LIT J180 FTZ BDF-STAR(RNAV only) LUFKIN-DP LIT J131 PXV SARGO	
	(RNAV)-STAR	
	or	
	(all others) LUFKIN-DP LIT J131 PXV	
Cleveland (CLE)	MOSEY-STARLUFKIN-DP LIT J131 PXV JUDDI CVG	
0.070.00.00	ZABER-STAR	
Detroit-Wayne (DTW)	LUFKIN-DP LIT J131 PXV VHP FWA MIZAR-STAR	
	or	
	ALAMO-DP LFK J101 LIT J131 PXV VHP FWA MIZAR-STAR	
Fort Lauderdale (FLL)	(GPS or DME/DME-IRU equipped)	
,	SABINE PASS (RNAV)-DP LEV Q102 BAGGS	
	RSW FORTL-STAR	
	or (GPS or DME/DME-IRU equipped)	
	SABINE PASS (RNAV)-DP LEV Q102 BAGGS	
	JINGL (RNAV)-STAR	
Kennedy (JFK)	(GPS or DME/DME-IRU equipped) GUSTI	
	(RNAV)-DP SJI J37 MGM MGM048138 GRD	
La Guardia (LGA)	J209 ORF J121 SIE CAMRN-STAR(GPS or DME/DME-IRU equipped) GUSTI	
La dualdia (LuA)	(RNAV)-DP SJI J37 MGM AHN J208 HPW J191	
	PXT KORRY-STAR	
Miami (MIA)	(GPS or DME/DME-IRU equipped) SABINE PASS	
	(RNAV)-DP LEV Q102 CYY CYY-STAR	
	(Turbojets-GPS or DME/DME-IRU equipped)	
	SABINE PASS (RNAV)-DP LEV Q102 BAGGS	
Nowark (EWD)	SSCOT (RNAV)-STAR	
Newark (EWR)	(GPS or DME/DME-IRU equiped) GUSTI (RNAV)-DP SJI SPA J14 J51 FAK PHLBO	
	(RNAV)-STAR	
Orlando (MCO)	(all others) SABINE PASS (RNAV)-DP LEV Q100	
	REMIS BOXKR MINEE-STAR	
	or (Turbojets, GPS or DME/DME-IRU equipped)	
	SABINE PASS (RNAV)-DP LEV Q100 REMIS	
	BOXKR COSTR (RNAV)-STAR	1100-0400
Palm Beach (PBI)	(GPS or DME/DME-IRU equipped) SABINE PASS	
	(RNAV)-DP LEV Q100 SRQ WLACE (RNAV)-STAR	
Philadelphia (PHL)	(GPS or DME/DME-IRU equipped) GUSTI	
	(RNAV)-DP SJI J37 SPA J14 J51 FAK	
Dittale and (DIT)	DPNT-STAR	
Pittsburgh (PIT)	LUFKIN-DP LIT J131 PXV IIU HNN WISKE-STAR or	
	(GPS or DME/DME-IRU equipped) LEV Q100	
	REMIS BLOND BLOND(RNAV)-STAR	
Tampa (TPA)	(GPS or DME/DME-IRU equipped) SABINE PASS	
	(RNAV)-DP LEV Q102 REMIS BLOND BLOND (RNAV)-STAR	
	() Ol/lit	

**Effective** 

# PREFERRED IFR ROUTES

		Effective
Terminals	Route	Times (UTC)
Washington (DCA)	(GPS or DME/DME-IRU equipped) GUSTI (RNAV)-DP SJI J37 SPA J14 RIC OJAAY	(010)
	(RNAV)-STAR	
Washington (IAD)	(GPS or DME/DME-IRU equipped) GUSTI (RNAV)-DP SJI J37 SPA J14 CREWE J51 FAK	
Windsor Locks (BDL)	BARIN COATT-STAR(GPS or DME/DME-IRU equipped) GUSTI	1630–1800
	(RNAV)-DP SJI J37 MGM MGM 048/138 GRD J209 RDU J207 FKN J79 JFK DPK DPK-STAR	
JACKSON (JAN)		
Houston (HOU)	(DME/DME-IRU or GPS-equipped) AEX ROKIT (RNAV)-STAR	
	(Non-advanced NAV only) AEX DAS-STAR	
Houston (IAH)	(Turbojets-DME/DME-IRU or GPS-equipped) AEX	
	TXMEX (RNAV)-STARor	
LITTLE ROCK (LIT)	(Non-advanced NAV only) AEX DAS STAR	
Houston (HOU)	(DME/DME-IRU or GPS-equipped) J180 SWB	
	ROKIT (RNAV)-STARor	
Houston (IAH)	(Non-advanced NAV only) J180 SWB DAS-STAR (Turbojets-DME/DME-IRU or GPS-equipped)	
,	J180 SWB TXMEX (RNAV)-STAR	
NEW 021 E4410 (F40) (	(Non-advanced NAV only) J180 SWB DAS-STAR	
NEW ORLEANS (MSY)	OOV LOO OTAR	
Atlanta (ATL) Baltimore (BWI)	GCV LGC-STAR	
Baltimore (BWI)	or	
	(GPS or DME/DME-IRU equipped) J37 SPA J14	
Boston (BOS)	RIC RAVVN (RNAV)-STAR	
, , ,	J79 JFK ORW-STAR	
Cincinnati (CVG)	(RNAV only) J35 MEM J29 PXV SARGO (RNAV)-STAR	
	or (all others) J35 MEM J29 PXV MOSEY-STAR	
Charlotte (CLT)	(Turbojets–GPS or DME/DME–IRU Equipped) MEI J239 ATL ADENA (RNAV)–STAR	
Cleveland Metro Area (CLE) (CGF) (BKL)	J239 ATE ADENA (RNAV)-STAR	
(LNN) (LPR)	IIU ZABER-STAR	
Denver (DEN)	J58 FUZ J21 ADM J52 LAA QUAIL-STAR	
Detroit Metro-Wayne (DTW) Houston (HOU)	MEM J29 IMPEL VHP FWA MIZAR-STAR (DME/DME-IRU or GPS-equipped) KCEEE	
Trouston (1100)	COLUMBIA (RNAV)-STAR	
	or (Non-advanced NAV only) AEX DAS-STAR	
Houston (IAH)	(DME/DME-IRU or GPS-equipped) JEPEG KUGLE	
, ,	WOLDE WOLDE (RNAV)-STAR	
	(Non-advanced NAV only) AEX DAS-STAR	
Kennedy (JFK)	J37 MGM MGM048138 GRD J209 ORF J121 SIE CAMRN-STAR	
La Guardia (LGA)	J37 MGM AHN J208 HPW J191 PXT KORRY-STAR	
Louisville (IIU)	J35 MEM BWG EWO	
Newark (EWR)	J37 SPA J14 J51 FAK DYLIN-STAR or	
	(GPS or DME/DME-IRU equipped) J37 SPA J14	
Machington Dulley (IAD)	J51 FAK PHLBO (RNAV)-STAR	
Washington Dulles (IAD) Washington Natl (DCA)	J37 SPA J14 J51 FAK COATT-STAR J37 SPA J14 RIC IRONS-STAR	
3 ,	0.5	

or

Effective Times (UTC)

Effective

Effective

Terminals	Route
	(GPS or DME/DME-IRU equipped) J37 SPA J14
	RIC OJAAY (RNAV)-STAR
Windsor Locks (BDL)	J37 MGM MGM048138 GRD J209 RDU J207 FKN
	J79 JFK DPK DPK-STAR
OKLAHOMA CITY (OKC)	
Houston HOU)	(Turbojets) CVE TEXNN-STAR
	or
	(Non-Turbojets) CVE ELLVR BLUBL-STAR
Houston (IAH)	CVE RIICE-STAR
SAN ANTONIO (SAT)	
Atlanta (ATL)	J2 LCH J590 GCV LGC STAR
	or
	(RNAV only) J2 LCH J590 GCV HONIE RNAV-STAR
Denver (DEN)	J17 AMA TBE J171 TODDE QUAIL-STAR
Detroit Metro-Wayne Co (DTW)	ALAMO-DP LFK J101 LIT J131 PXV VHP FWA
	MIZAR-STAR
Houston (HOU)	ALAMO ELA LISSE-STAR
Houston (IAH)	ALAMO ELA GLAND-STAR
TULSA (TUL)	
Houston (HOU)	(Turbojets) OKM CVE TEXNN-STAR
Houston (IAH)	OKM CVE RIICE-STAR

# SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

Terminals Traffic(OCEANIC) originating South of Houston Center northbound:	Route	Times (UTC)
нои	(GPS or DME/DME-IRU equipped) A766 KLAMS COLUMBIA (RNAV)-STAR or (GPS or DME/DME-IRU equipped) B753 MAHEE MCOOL COLUMBIA (RNAV)-STAR	
IAH	(GPS or DME/DME-IRU equipped) A766 KLAMS WOLDE (RNAV)-STARor (GPS or DME/DME-IRU equipped) B753 MAHEE KUGLE WOLDE (RNAV)-STAR	

# HIGH ALTITUDE—SINGLE DIRECTION ROUTES

		Direction	Times
Airway	Segment Fixes	Effective	(UTC)
J6	Lancaster, PA to Little Rock, AR	Southwest	1100-0300
J42	Texarkana, AR to Robbinsville, NJ	Northeast	1100-0300
J180	Little Rock, AR to Humble, TX	Southwest	1200-0400

# **GULF OF MEXICO "O ROUTES"**

These area navigation routes extend more than 12 miles offshore in airspace controlled by the Federal Aviation Administration (FAA). Additional regulatory information for these routes can be found in the Notices to Airmen Publication, Part 3. International Notices to Airmen.

These routes have a Minimum Obstruction Clearance Altitude (MOCA) of 1500 feet (MSL). The Minimum Enroute Altitude (MEA) for these routes is 6000 feet (MSL)

#### 0100

LEV VORTAC

N28°52.98'/W088°42.11' REDFN N28°18.87′/W086°42.31′ R077I N27°53.04′/W085°15.47′ RFMIS

SRQ VORTAC 0102

LEV VORTAC

N28°22.94'/W088°02.05' **BLVNS** BUNNZ

N28°00.58'/W086°45.76' BACCA N27°35.51'/W085°20.66' N27°29.61'/W084°46.99' CIGAR BAGGS N27°08.06′/W082°50.45′

CYY VORTAC 0105 HRV VORTAC

**FATSO** N29°41.40′/W089°47.08′ REDFN N28°52.98'/W088°42.11' **BLVNS** N28°22.94'/W088°02.05'

#### O-ROUTES REGULATORY

#### 01, 03, 05, 07, 09 and 011 are preferred single direction (Southbound) O routes; flight planning Northbound not authorized.

O routes are RNAV routes that require the use of GNSS or DME/DME/IRU RNAV, unless otherwise indicated. Please note that this section does not apply to Q routes in the Gulf of Mexico. Gulf of Mexico Q routes are explained in the Southeast and South Central A/FD volumes. Q routes listed in this A/FD volume have at least part of one of their leg segments within this volume's area of coverage.

GNSS and DME/DME/IRU RNAV operations are authorized along O routes at FL 180 and above, GNSS and DME/DME/IRU RNAV MEAs will only be published if above FL 180.

DME facilities that have been assessed for RNAV operations are listed below. O routes with no DME facilities listed are limited to GNSS RNAV operations only. Those routes will have an enroute chart note "GNSS REQUIRED".

Route	Segment	DME
Q1	ELMAA-ERAVE	BTG, OLM, HQM, HUH, UBG
-	ERAVE-EASON	BTG, OLM, HQM, HUH, LTJ, CVO, DSD, OED, UBG, ONP, EUG
	EASON-EBINY	CVO, DSD, OED, BTG, UBG, ONP, EUG, LMT
	EBINY-ENVIE	CVO, OED, EUG, LMT, RBL, ENI, ONP, FJS
	ENVIE-ETCHY	OED, PYE, OAK, LIN, ECA, LMT, RBL, ENI, SAC, FJS
	ETCHY-POINT REYES	LIN, ECA, RBL, ENI, SAC, OAK
Q2	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-HOBOL	BZA, GBN, BLH, EED, PXR, IPL, TFD, DRK, TUS
	HOBOL-ITUCO	TFD, GBN, BLH, PXR, TUS, CIE, SSO
	ITUCO-NEWMAN	EWM, TFD, PXR, CIE, SSO, TUS, TCS
Q3	FEPOT-FAMUK	OLM, TOU, HQM, CVO, BTG, DSD, LTJ, UBG, ONP, EUG
	FAMUK-FRFLY	BTG, DSD, OED, CVO, EUG, ONP, UBG, RBL, LMT
	FRFLY-FINER	OED, EUG, RBL, LMT, ENI, CVO, FJS
	FINER-FOWND	OED, PYE, ECA, LIN, OAK, ENI, RBL, LMT, SAC, FJS
	FOWND-POINT REYES	LIN, ECA, PYE, RBL, SAC, ENI
Q4	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-SCOLE	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SCOLE-SPTFR	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SPTFR-ZEBOL	EED, IPL, BZA, GBN, TFD, PXR, BLH
	ZEBOL-SKTTR	PXR, BLH, BZA, GBN, TFD, TUS, SSO, CIE, SVC, TCS
	SKTTR-EL PASO	EWM, CUS, SVC, TCS, SSO, CIE, ELP, DMN, CME
Q5	HAROB-HISKU	OLM, ONP, CVO, EUG, HQM, UBG, BTG, LTJ, DSD, HUH
	HISKU-HARPR	ONP, CVO, EUG, LTJ, DSD, UBG, BTG, RBL, OED, LMT, FJS, LKV
	HARPR-HOMEG	CVO, EUG, OED, RBL, LMT, ENI, FJS, LKV
	HOMEG-HUPTU	SAC, PYE, LIN, OAK, ECA, LMT, RBL, ENI, OED, FJS
	HUPTU-STIKM	OAK, ECA, PYE, LIN, SAC, ENI, RBL

392 Q-ROUTES

Route	Segment	DME
Q7	JINMO-JOGEN	CVO, HQM, LTJ, UBG, BTG, ONP, IMB, EUG, OLM, DSD, YKM, PDT, SEA
	JOGEN-JUNEJ	LTJ, IMB, UBG, EUG, CVO, RBL, LMT, FMG, DSD, LKV, OED, BTG
	JUNEJ-JAGWA	RBL, LMT, FMG, LIN, SAC, ECA, ENI, MOD, SWR, OAK, LKV, CZQ, AVE, SNS
00	JAGWA-AVENAL	OAK, MOD, ECA, EHF, PRB, AVE, SNS, CZQ
Q9	SUMMA-SMIGE	OLM, UBG, SEA, YKM, BTG, ONP, IMB, HQM, PDT, EUG, LTJ, CVO, DSD, OED,
	CMICE CUNDE	EPH, MWH
	SMIGE-SUNBE	IMB, UBG, EUG, IMB, RBL, LMT, FMG, SAC, OED, CVO, LKV, DSD, BTG
	SUNBE-REBRG	RBL, LMT, FMG, SAC, ECA, MVA, CZQ, OAK, EHF, PMD, LKV, LIN, MOD, AVE, OED, SWR
	REBRG-DERBB	CZQ, PMD, EHF, LAX, RZS, AVE, MOD, ECA
Q11	PAAGE-PAWLI	EPH, UBG, CVO, EUG, HQM, YKM, OLM, PDT, BTG, ONP, IMB, LTJ, DSD, LKV,
¥	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OED, SEA
	PAWLI-PITVE	EUG, FMG, SAC, IMB, LKV, OED, DSD, RBL, LMT, CVO, REO
	PITVE-PUSHH	FMG, SAC, LIN, SWR, MOD, OAL, RBL, LKV, LMT, MVA, CZQ
	PUSHH-LOS ANGELES	SAC, ECA, FMG, LIN, OAL, MOD, EHF, LAX, PMD, PDZ, HEC, OCN, CZQ, AVE, RZS
Q13	All segments	None; GNSS required
Q15	All segments	None; GNSS required
Q19	PLESS-NASHVILLE	ENL, GQO, PXV, BNA, IIU, FAM, BWG, CSX
Q20	CORONA-HONDS	CNX, ABQ, ACH, ONM, TXO, LVS, TCC, CME
	HONDS-UNNOS	CNX, INK, CME, TXO, TCC
	UNNOS-FUSCO	FST, ACH, INK, CME, SJT, TXO, TCC
	FUSCO-JUNCTION	ABI, CWK, CSI, INK, LZZ, JCT, SJT, STV, FST
Q21	JONEZ-RAZORBACK	BYP, EOS, TUL, TXK, ADM, RZC, OKM
Q22	GUSTI-OYSTY	AEX, DAS, MCB, LLA, BTR, LCH, HRV, LFT, LEV
	OYSTY-ACMES	RQR, GCV, MCB, BTR, PCU, GPT, HRV, LEV, SJI
Q23	ACMES-CATLN	SJI, MGM, MCB, BFM, GPT, GCV, HRV, CEW, MVC, PCU, MEI
Q23 Q24	FORT SMITH-RAZORBACK LAKE CHARLES-BATON	AEX, DAS, LCH, MCB, LFT, BTR
4	ROUGE	NEX, BNO, EOH, MOB, EFF, BIN
	BATON ROUGE-IRUBE	AEX, LEV, MCB, LCH, RQR, HRV, BTR, GCV, MCB, PCU, SJI, LBY
	IRUBE-PAYTN	GCV, MCB, JYU, PCU, MEI, HRV, CEW, SJI
Q25	MEEOW-WALNUT RIDGE	ELD, MEM, LIT, FAM, RZC
	WALNUT RIDGE-WLSUN	MEM, STL, BWG, PXV, ENL, FAM, ARG, BNA, CSX, TTH
	WLSUN-POCKET CITY	BWG, PXV, ENL, BNA, TTH
Q26	WALNUT RIDGE-DEVAC	LIT, JKS,GQO, MEM, BNA, FAM, ARG, DYR, VUZ, RMG
Q27	FORT SMITH-ZALDA	OKM, SGF, RZC, EOS, TUL
Q28	GRAZN-PYRMD	EIC, LIT, ELD, OKM, TXK
	PYRMD-HAKAT	ARG, LIT, FAM, ELD, SGF, RZC, MEM, TXK
	HAKAT-ESTEE	ARG, LIT, FAM, SGF, MEM
020	ESTEE-POCKET CITY	ARG, CSX, FAM, PXV, ENL, MEM, STL, BWG, TTH, BNA
Q29	HARES-MEMPHIS MEMPHIS-SIDAE	MEM, ARG, LIT, JAN, ELD, SQS
	SIDAE-POCKET CITY	MEM, PXV, BNA, BWG, ARG, ENL PXV, TTH, BWG, ENL
Q30	SIDON-VULCAN	GLH, MEM, VUZ, JAN, JYU, MEI, MGM, SQS, RMG
Q31	DHART-JODOX	SQS, LIT, TXK
40-	JODOX-MARVELL	SQS, LIT, ELD, MEM, ARG
	MARVELL-TIIDE	ARG, BWG, PXV, FAM, LIT, MEM, ENL, TTH
	TIIDE-POCKET CITY	BWG, PXV, ENL, TTH
Q32	EL DORADO-GAGLE	AEX, JAN, MEM, SQS, SWB, ELD, LIT, TXK
	GAGLE-CRAMM	JAN, SQS, MEM, ARG, VUZ, BNA, LIT
	CRAMM-NASHVILLE	BWG, MEM, VUZ, BNA, GQO
	NASHVILLE-SWAPP	BWG, IIU, PXV, VXV, BNA, GQO
Q33	DHART-LITTLE ROCK	AEX, ELD, LIT, TXK, SWB, ARG, MEM, SQS
	LITTLE ROCK-PROWL	ELD, SGF, FAM, LIT, ARG, MEM, RZC, CSX, STL
Q34	TEXARKANA-MATIE	LIT, SWB, TXK, BYP, EIC, ELD, SQS
	MATIE-MEMPHIS	LIT, ARG, MEM, ELD, SQS
025	MEMPHIS-SWAPP	BWG, ARG, MEM, MKL, SQS,PXV, BNA, GQO, IIU, VXV
Q35	KIMBERLY-NEERO	LTJ, PDT, DSD, IMB, LKV, BOI, REO, BAM, SDO
	NEERO-WINEN	BQU, SDO, BAM, REO, BVL, ILC, DTA, ELY, CDC, MLF, BCE
	WINEN-CORKR	CDC, BCE, BLD, ILC, MLF, TBC, PGS, INW, DRK TBC, BCE, BLD, DRK, PGS, FLG, GCN, INW, TFD
Q36	CORKR-DRAKE RAZORBACK-TWITS	RZC, MEM, SGF, BUM, TUL, EOS, FAM, ARG, LIT
200	TWITS-DEPEC	MEM, GQO, BNA, BWG, FAM, ARG, PXV, IIU
	DEPEC-NASHVILLE	GQO, BWG, BNA, PXV, IIU
	NASHVILLE-SWAPP	VXV, BWG, BNA, GQO, PXV, IIU
		,,, aqa,,

Route	Segment	DME
Q38	ROKIT-INCIN	DAS, LCH, SWB, IAH, LFK, HUB, AEX
	INCIN-LAREY	JAN, MCB, SWB, AEX
	LAREY-BESOM	JAN, JYU, MEI, SQS, VUZ
Q40	ALEXANDRIA-DOOMS	AEX, SWB, LCH, JAN, HEZ, MCB
	DOOMS-WINAP	JAN, SQS, MEI, MCB
	WINAP-MISLE	MEI, VUZ, JYU
Q42	KIRKSVILLE-STRUK	CID, IOW, UIN, LMN, IRK, BDF, STL, DEC, ENL, CSX
	STRUK-DANVILLE	ENL, IOW, UIN, BDF, DEC, STL, CSX, SPI, TTH, BVT, JOT, VHP, OXI, ENL, OKK,
		OBK, GIJ, FWA, GSH, IRK
	DANVILLE-MUNCIE	GIJ, SPI, BDF, OBK, OKK, VHP, BVT, DEC, GSH, FWA, JOT, TTH, OXI, ROD, FLM
	MUNCIE-HIDON	FLM, VHP, GSH, TTH, GIJ, OKK, FWA, ROD, OXI, CRL, GSH, APE, DJB, DXO, HNN,
		AIR, HVQ, CXR, EWC
	HIDON-BUBAA	AIR, APE, HNN, CXR, HVQ, EWC, DJB
	BUBAA-PSYKO	AIR, APE, DJB, CXR, HNN, EWC, SLT, CSN, JHW, ETG, PSB
	PSYKO-BRNAN	PSB, JHW, EWC, AIR, ETG, CSN, EMI, SLT
	BRNAN-MAALS	EMI, SLT, CSN, EWC, PSB, ETG, SAX, RBV, HNK, HUO, SIE
	MAALS-SUZIE	ETG, EMI, CSN, HUO, SIE, JFK, PSB, SLT, HNK
	SUZIE-EAST TEXAS	JFK, EMI, PSB, SLT, HNK, SIE, RBV, SAX, HUO, CYN
	EAST TEXAS-ELIOT	HUO, RBV, EMI, CYN, SAX, JFK, PSB, HNK
Q104	DEFUN-HEVVN	PIE, PZD, CRG, SZW, TAY, JYU, CEW, MGM, OTK, CRG
	HEVVN-PLYER	PIE, ORL, OMN, SRQ, TAY, LAL, CRG, SZW, PZD
	PLYER-SWABE	PIE, ORL, OMN, SRQ, TAY
	SWABE-ST PETERSBURG	LAL, ORL, OMN, SRQ, PHK, PIE
	ST PETERSBURG-	PHK, PBI, SRQ, PIE, VRB, ORL, FLL, LAL, OMN
0106	CYPRESS	LAL ODL CMALDUL DIE ODC VDD TAV OTK DZD AMC CZW
Q106	SMELZ-BULZI	LAL, ORL, OMN, PHK, PIE, CRG, VRB, TAY, OTK, PZD, AMG, SZW
	BULZI–DRABK DRABK–GADAY	AMG, PZD, TAY, CRG, SZW, MGM, OTK, JYU, CEW, SJI MGM, PZD, OTK, JYU, SZW, CEW, SJI
0108	GADAY-CLAWZ	MGM, SJI, CEW, JYU, PZD, OTK, MCN, SZW, LGC, TAY, AMG
Q110	THNDR-JAYMC	SRQ, VRB, PHK, PIE, LAL, VKZ, ORL, PBI
Q110	JAYMC-RVERO	VKZ, VRB, PHK, PIE, LAL, SRQ, ORL, OMN, PBI, DHP
	RVERO-KPASA	OMN, PIE, PBI, SRQ, ORL, LAL
	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-GULFR	OMN, AMG, CRG, SZW, PIE, TAY, PZD, OTK
	GULFR-FEONA	TAY, MCN, PZD, CRG, OTK, SZW, AMG, MCN, ATL, MGM
Q112	DEFUN-HEVVN	PIE, OTK, CRG, OMN, LAL, SZW, SRQ, ORL, VRB
	HEVVN-INPIN	JYU, PZD, CEW, SZW, MGM, OTK, TAY, AMG, PIE, CRG
Q116	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-GULFR	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK
	GULFR-CEEYA	MCN, AMG, PZD, OTK, SZW, TAY
Q118	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-LENIE	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK, MCN
Q501	VIXIS-GOPHER	ECK, FNT, APN, SSM, GRR, MBL, SAW, BAE, MNM, DLL, AUW, ODI, STE, FGT, EAU,
		DLH, GEP, BRD, MCW, MSP, ASP, TVC, GRB, RWF
	GOPHER-SOBME	FGT, BRD, MCW, GEP, ABR, FAR, DLH, ODI, RWF, FSD
Q502	KENPA-GOPHER	SSM, FNT, ECK, APN, SAW, GRB, BAE, DLL, AUW, ODI, FGT, DLH, EAU, MCW,
		MSP, MNM, ASP, TVC, GEP, RWF, BRD
	GOPHER-SOBME	FGT, DLH, ODI, MCW, ABR, FAR, MSP, GEP, RWF, FSD, BRD
Q504	NOTAP-CESNA	SSM, ECK, APN, GLR, PLN, ISQ, MNM, DLL, RHI, DLH, GEP, FGT, ODI, ASP, TVC,
	OFONIA LIEMBI	SAW, GRB, BRD
OFOE	CESNA-HEMDI	ODI, GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, DLL, BRD
Q505	OMAGA-RIMBE	SSM, TVC, ASP, SAW, GRB
	RIMBE-CESNA	SSM, RHI, DLL, DLH, GEP, FGT, TVC, SAW, GRB, BRD, ODI
	CESNA-HEMDI	GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, BRD, ODI, GRB

#### **RNAV Routing and Catch Points**

The purpose of this section of the Special High Altitude Routes is to present user routing options for flight within the initial HAR Phase I expansion airspace. Users are able to fly user-preferred routes, referred to as non-restrictive routing (NRR), between specific fixes described by pitch (entry into) and catch (exit out of) fixes in the HAR airspace. Pitch points indicate an end of departure procedures, preferred IFR routings, or other established routing programs where a flight can begin a segment of NRR. The catch point indicates where a flight ends a segment of NRR and joins published arrival procedures, preferred IFR routing, or other established routing programs.

The HAR Phase I expansion airspace is defined as that airspace at and above FL 350 in fourteen of the western and southern Air Route Traffic Control Centers (ARTCCs). The airspace includes Minneapolis (ZMP), Chicago (ZAU), Kansas City (ZKC), Denver (ZDV), Salt Lake City (ZLC), Oakland (ZOA), Seattle Centers (ZSE), Los Angeles (ZLA), Albuquerque (ZAB), Fort Worth (ZFW), Memphis (ZME), and Houston (ZHU). Jacksonville (ZJX) and Miami (ZMA) are included for east-west routes only.

To develop a flight plan, select pitch and catch points based upon your desired route across the Phase I airspace, Filing requirements to pitch points, and from catch points, remain unchanged from current procedures. For the portion of the route between the pitch and catch points, non-restrictive routing is permitted.

Where pitch points for a specific airport are not identified, aircraft should file an appropriate departure procedure (DP), or any other user preferred routing prior to the NRR portion of their routing. Where catch points for a specific airport are not identified aircraft should file, after the NRR portion of their routing, an appropriate arrival procedure or other user preferred routing to their destination.

Additionally, information concerning the location and schedule of Special Use Airspace (SUA) and Air Traffic Control Assigned Airspace (ATCAA) can be found on the Web Site: http://sua.faa.gov/sua/Welcome.do. ATCAA refers to airspace in the high altitude structure supporting military and other special operations. Users are encouraged to file around these areas when they are scheduled to be active, thereby avoiding unplanned reroutes around them.

In conjunction with the HAR program RNAV routes have been established to provide for a systematic flow of air traffic in specific portions of the enroute flight environment. The designator for these RNAV routes begin with the letter Q, for example, Q-501. Where those routes aid in the efficient orderly management of air traffic they will be published as preferred IFR routes.

High Altitude Redesign (HAR) Phase One Expansion Airspace

HAR expansion airspace may pitch

Except as noted, flights entering at the airspace boundary, at the

west longitude to the ZHU southern boundary. 90 degrees west longitude, the 90 degrees south to the ZHU boundary. Then west to except between PMM and GSH, then boundary to the ZME/ZID boundary west longitude from the ZMP/ZAU following the ZME east boundary Vertical Pitch Line: 86 degrees No westbound traffic between PMM and GSH. ZNY 787 ZDC ZNY ZIMA ZOB E ZXX IN DEW g TWE SSH Sovido Sovido W 98 W 06 OFF CESNA ZME vertical pitch line, or at the fixes isted on the following page. ZKC ZHD ZFW ZIID 702 ZAB ZLC ZLA ZSE ZOA

SC, 17 DEC 2009 to 11 FEB 2010

# HAR Special High Altitude Pitch (entry) Points for Nonrestrictive Routing for Airports **Located Outside HAR Phase I Expansion Airspace**

Westbound traffic originating outside of HAR airspace entering ZMP, ZAU, ZKC and ZME can begin non-restrictive routing over any of the following pitch points (listed from north to south):

DLH, CESNA, GEP, BAE, MKG, GRR, PMM, GSH, CADIZ, FWA, VHP, FLM, IIU, PXV, SGF, RZC, BNA, SALMS, VUZ, BOYDD, MIF

Traffic originating outside of HAR airspace may also begin Nonrestrictive Routing upon crossing the pitch line depicted on the associated graphic.

# HAR Special High Altitude Pitch Points for Airports Located Within (below) **HAR Phase I Expansion Airspace**

This section lists pitch points for airports within the HAR Phase I expansion airspace.

Albuquerque ABQ, GUP, HANOS or ZUN

Austin ABI, FUZ, JCT, MQP, NAVYS, SJT or TNV

Boca Raton, FL TBIRD KPASA 0118 LENIE

TBIRD KPASA 0116 CEEYA TBIRD KPASA 0110 FEONA

TBIRD SMELZ Q106 BULZI TBIRD SMELZ Q106 GADAY

Rurhank includes GMN, MARKS

Santa Monica and Van Nuys DAG LAS

> HEC EED PMD BLH

Chicago Terminal Area IOW, PLL275065, MZV or BAE

Dallas/Fort Worth Terminal Area ABI, LBB, GTH, CDS, MRMAC, IRW, TUL, MLC, TXK

ELD. SWB

Aircraft destined the Chicago terminal area Except MDW

EAKER MIDEE BDF BRADFORD-STAFF

MLC J105 SGF BDF BRADFORD-STAF

Denver Terminal Area PUB, DVC, DBL, RLG, EKR, LAR, MBW, CYS, BFF, HANKI, NATTI, ASHBY, BELKE,

CABET, WEEDS, OR BINKE

Fort Lauderdale (or) THNDR KPASA Q118 LENIE

Fort Lauderdale Executive

THNDR KPASA Q116 CEEYA

THNDR KPASA Q110 FEONA

THNDR SMELZ Q106 GADAY

THNDR SMELZ Q106 BULZI

Houston Bush LIT, EMG, MLC, JCT

Aircraft destined Atlanta Terminal Area LCH Q24 PAYTN HONIE-RNAV STAR

Aircraft joining J37 to the northeast, BPT GUSTI Q22 CATLN

Aircraft joining J42 to the northeast, ELD Q32 J42

LIT, EMG, MLC, JCT, Houston Hobby

Aircraft joining J42 to the northeast, ELD Q32 J42

Jacksonville, FL

Kansas City Terminal Area TIFTO, CATTS or KENTN

GMN. RZS Los Angeles, includes Ontario or

> DAG LAS or TRM EED

or TRM PKE

DOBNE, MOSBI, NICLE, TRALR or ZELOT Las Vegas

GMN SNS, EHF, LANDO Long Beach includes

Orange County

TRM PKE or

TRM EED

BNA, HAAWK, SALMS or SQS Memphis Miami Terminal Area WINCO KPASA Q118 LENIE

WINCO KPASA Q116 CEEYA

WINCO KPASA Q110 FEONA

WINCO SMELZ Q106 GADAY

WINCO SMELZ 0106 BULZI

Milwaukee GREAS

Palm Beach, FL

Minneapolis Terminal Area\* ONL, ABR, FAR, OBH, OVR, FOD

New Orleans Terminal Area AEX, MEI, SQS, KAPLN Orlando Terminal Area WEBBS BRUTS Q118 LENIE

or

WEBBS GULFR Q116 CEEYA

WEBBS BULZI Q106 GADAY

WEBBS FEONA

or WEBBS BULZI

TBIRD KPASA Q118 LENIE

TBIRD KPASA Q116 CEEYA

TBIRD KPASA Q110 FEONA

TBIRD SMELZ Q106 BULZI TBIRD SMELZ Q106 GADAY

TRM JOTNU BLD Palm Springs

or

TRM EED TRM PKE

Phoenix CHILY, CIE, CULTS, RSK, DOVEE, GCN, MESSI, SJN, DRYHT or MOHAK

Portland, OR PDT, TIMEE 398

Salt Lake City HVE, DTA, MLF, BCE, OAL, MTU, BVL, OCS, TWF, DBS, BPI

TCH J56 CHE TCH J173 EKR

Saint Louis VIH, MAP, MYERZ, MCM

HLV MCI

San Antonio Terminal Area FUZ, SJT, MQP, ABI

Aircraft North of LFK, LFK Aircraft South of HUB, ELA

Aircraft South of LFK and North of HUB LCH

San Diego TRM EED

TRM PKE

TRM JOTNU BLD

San Francisco Bay Area GALLI, INSLO, HAROL JSICA Oakland GALLI, INSLO, HAROL JSICA

San Jose GALLI or INSLO

Seattle BLUIT

Southwest Florida Airports

Atlanta Terminal Area

(RSW/FMY)

JOCKS KPASA Q118 LENIE

JOCKS KPASA 0116 CEEYA

JOCKS KPASA Q110 FEONA

JOCKS SMELZ Q106 GADAY

JOCKS SMELZ Q106 BULZI

Tampa Terminal Area FEONA, BULZI

> or BRUTS 0118 LENIE

**GULFR 0116 CEEYA** or BULZI Q106 GADAY

#### Catch Points for Airports Located Outside HAR Phase I Expansion Airspace

This section lists exit points for aircraft destined to specific destinations which are outside the HAR Phase I airspace.

Aircraft through ZME airspace from ZKC airspace east of FAM, Pless Q19 BNA

Aircraft through ZME airspace from ZKC airspace west of FAM, ARG Q26 DEVAC

or MEM

Aircraft through ZME airspace from ZID airspace west of a line from VHP to

Aircraft through ZME airspace from ZID airspace east of a line from VHP to

BWG, BWG

Aircraft through ZME airspace from ZFW airspace, MEM

MEI HONIE (RNAV)-STAR

PATYN HONIE (RNAV)-STAR

SC, 17 DEC 2009 to 11 FEB 2010

<sup>\*</sup>MSP area departures with destinations east of 93 degrees west longitude via preferred IFR routing.

Baltimore–Washington\* GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA or VUZ

Boston\* GEP, CRL, ECK, IIU, BNA or VUZ

Buffalo\* GEP, CRL

Hartford Bradley\* GEP, CRL

Canton-Akron\* GIJ, VHP, GEP

Charlotte BNA, VUZ

Cincinnati Terminal Area BNA. PXV

or

Aircraft north of SLC, JOT

, ....

Aircraft over or south of SLC, ENL

or

SLC or SFO departures, ENL, JOT

Cleveland Terminal Area\* OBK

Detroit Terminal Area BAE MKG POLAR-STAR

or

VHP FWA MIZAR-STAR

Detroit Young VHP FWA

or

LAN SPRTN-STAR

Indianapolis Terminal Area BIB, SPI, JOT
Louisville ENL. MEM

Newark\* GEP, VHP, FLM, IIU, BNA, VUZ

or

IOW GIJ J554 CRL J584 SLT FQM

New York Kennedy\* GEP, VHP, FLM, IIU, BNA, VUZ

or

DBQ J94 PMM J70 LVZ LENDY-STAR

New York LaGuardia\* GJJ, GEP, VHP, BAE, FLM, IIU, BNA, VUZ
Philadelphia Terminal Area\* GJJ, GEP, VHP, BAE, WHETT, BNA, VUZ

Pittsburgh Terminal Area\* VHP, GIJ, BAE, GEP
Pontiac LFD, LAN, VHP, FWA, GEP

Providence JHW, HEMDI, CESNA, GEP, GRB, TVC, ASP, VHP, IIU, BNA, VUZ

 Raleigh-Durham
 FLM, IIU, BNA, VUZ

 Toronto Terminal Area
 ECK, SVM, SSM, GEP

 Teterboro\*
 GEP, VHP, CRL, BNA, VUZ

Washington Dulles/National\* GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA, VUZ

White Plains\* GEP, VHP, CRL, FLM, IIU, BNA, VUZ

Willow Run\* LAN, LFD, VHP, FWA, GEP

\*Eastbound aircraft over flying ZMP center airspace entering Toronto center airspace, file direct SSM or via J63, J522, Q505, Q504, Q502, Q501

or

Entering ZAU or ZOB airspace from north of DPR J16 MCW, GEP

or

Entering ZAU or ZOB airspace from or south of DPR J16 MCW, CRL.

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# HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING

# Catch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists exit points for aircraft destined to airports which are below HAR Phase I airspace.

Albuquerque Terminal Area CURLY CURLY-STAR

or

ESPAN FRIHO-STAR

LAVAN LAVAN-STAR

FTI FRIHO-STAR

or

MIERA MIERA-STAR

Austin Terminal Area Aircraft west of a north-south line at LFK. BLEWE

Aircraft east of a north-south line at LFK,IDU

or

LLO

Boca Raton, FL CEW DEFUN Q112 INPIN SHDAY (RNAV)-STAR

Aircraft through ZHU remain south of ZME and ZTL airspace

DEFUN 0112 INPIN SHDAY (RNAV)-STAR

Aircraft through ZHU remain south of ZME and ZTL airspace

SZW INPIN SHDAY (RNAV)-STAR

Chicago Midway CVA MOTIF-STAR

PIA MOTIF-STAR

DBQ CVA MOTIF-STAR

LMN MOTIF-STAR

Chicago O'Hare Terminal Area GEP DLL MSN JVL JANESVILLE-STAR

TVC PULLMAN-STAR

FOD DBQ JVL JANESVILLE-STAR

MCW JANESVILLE-STAR

GCK IRK BRADFORD-STAR

Dallas/Fort Worth Terminal Area IRW, LOSZY, FSM, LIT, SQS, MLU, AEX, JUMBO, TQA, TURKI, HEATR

Aircraft through ZME airspace from north and west of PXV, RZC, Q23 FSM

Aircraft through ZME airspace from east of PXV, PXV Q25 MEEOW

Aircraft through ZME airspace from J6 down to, but not including J52, LIT, SQS

Aircraft through ZME airspace from J52 and south of J52, SQS

Denver Terminal Area OATHE DANDD-STAR

HGO QUAIL-STAR

LOPEC-STAR

ALS LARKS-STAR

HBU POWDR-STAR

EKR TOMSN-STAR

CHE TOMSN-STAR

BFF LANDR-STAR

LBF SAYGE-STAR

HCT SAYGE-STAR

RSK LARKS-STAR

LAA QUAIL-STAR

GCK J154 RYLIE DANDD-STAR

OCS J154 ALPOE RAMMS-STAR

YANKI J114 SNY LANDR-STAR

Aircraft filed BIL or east, MBW RAMMS-STAR

Ft Lauderdale or CEW DEFUN Q104 PIE SWAGS (RNAV)-STAR

Ft Lauderdale Executive Aircraft through ZHU airspace remain south ZME and ZTL

airspace

SZW HEVVN 0104 PIE SWAGS (RNAV)-STAR

Houston Bush CRP. CVE. LLO. LUKIY. SAT

Aircraft south and east of LLA, LLA

MISLE Q40 AEX

Aircraft north and east of SJI, SJI

Aircraft east of PXV. PXV 031 DHART SWB

Aircraft north and west of PXV, PROWL Q33 DHART SWB

Houston Hobby CRP, ELLVR, SAT, SWB

Aircraft south and east of GIRLY, GIRLY

Aircraft north and east of SJI, SJI

BESOM Q38 ROKIT ROKIT-STAR

Aircraft east of PXV, PXV Q29 HARES SWB

Aircraft north and west of PXV, PROWL Q33 DHART SWB

Jacksonville **GADAY ZOOSS TAY** 

Aircraft through ZHU airspace remain south of ZME and ZTL

airspace

**ZOOSS TAY** 

John Wavne-Orange County HEC. PGS. BLD

Aircraft south of TBC from ZAB airspace, HIPPI

Kansas City Terminal Area LMN BRAYMER-STAR

PWE ROBINSON-STAR

EMP JHAWK-STAR

Las Vegas

DILCO, LIDAT, IGM

Aircraft over PGA or north of PGA KSINO

Aircraft south of PGA PGS LYNSY

Los Angeles Terminal Area Aircraft North of TBC, HEC, PGS

Aircraft South of TBC from ZAB airspace, HIPPI,

MESSI

CEW DEFUN Q104 CYY DEEDS (RNAV)-STAR Miami Terminal Area

Aircraft through ZHU airspace remain south ZME and ZTL airspace

SZW HEVVN Q104 CYY DEEDS (RNAV)-STAR

Minneapolis Terminal Area Aircraft from north, west, south,

FAR GOPHER-STAR

or

RWF SKETR-STAR or ALO KASPR-STAR

BRD GOPHER-STAR

BAE EAU CLAIRE-STAR or

FOD TWOLF-STAR

Memphis Terminal Area ARG, BWG, FSM, PXV, LIT, RZC, SQS, VUZ, BNA, GQO, ELD

Naples, FL CEW DEFUN 0104 PLYER PIKKR (RNAV)-STAR

Aircraft through ZHU AIRSPACE remain south of ZME and ZTL

airspace

SZW HEVVN 0104 PLYER PIKKR (RNAV)-STAR

Nashville CCT, GHM, GUITR, TINGS, VOLLS New Orleans Terminal Area BLUEZ, GPT, LCH, MCB, TBD, FATSO

Oakland II A

or

KATTS PAMMY

Aircraft over or south of a line ILC J16 DVC

REANA KATTS PAMMY

Aircraft from north of ILC, JOPER PAMMY

KATTS PAMMY

Aircraft over or south of ILC, REANA KATTS PAMMY

Orlando Terminal Area GADAY Q108 CLAWZ LEESE-STAR

Aircraft through ZHU airspace remain south of ZME/ZTL

airspace

OTK LEESE-STAR

Palm Beach, FL CEW DEFUN 0112 INPIN GULLO (RNAV)-STAR

Aircraft through ZHU airspace remain south of ZME and ZTL

airspace

SZW INPIN GULLO (RNAV)-STAR

Phoenix CORKR DRK

Aircraft from ZDV airspace,

GUP

Aircraft from ZAB airspace,

ZUN, MOHAK, SSO

VYLLA TUS

Phoenix Satellites FLG, SSO, MOHAK

VYLLA, TUS

Portland, OR Terminal Area ARNIT BONVL-STAR

LARNO BONVL-STAR

MOXEE MOXEE-STAR

St. Louis Terminal Area SGF TRAKE-STAR

Salt Lake City Terminal Area

BUM TRAKE-STAR ANX TRAKE-STAR

LMN IRK RIVRS-STAR

RBS VANDALIA-STAR

JNC J12 HELPR SPANE-STAR

EKR MTU SPANE-STAR

or

BCE DTA-TCH or MLF DTA-TCH

BVL BONNEVILLE-STAR

or BYI BEARR-STAR

or

PIH BEARR-STAR

DBS BRIGHAM CITY-STAR

JAC BRIGHAM CITY-STAR BPI BRIGHAM CITY-STAR

OCS BRIGHAM CITY-STAR

San Diego Terminal Area EED, LAX, GBN

Santa Ana HEC, PGS, BLD, HIPPI

San Antonio Terminal Area IDU, CSI, JCT, LLO, CRP, LRD

West of a north-south line at LFK, BLEWE

East of a north-south line at LFK, IDU

San Francisco FMG GOLDEN GATE-STAR

MVA MODESTO-STAR ENI GOLDEN GATE-STAR

OAL MODESTO-STAR

South of a line ILC to DVC,

REANA KATTS OAL MODESTO-STAR

San Jose FMG HYP EL NIDO-STAR

OAL HYP EL NIDO-STAR

ENI GOLDEN GATE-STAR

South of a line ILC to DVC,

REANA KATTS KICHI CANDA EL NIDO-STAR

Seattle Terminal Area Aircraft From northeast, southeast, south,

TEMPL GLASR-STAR

SUNED CHINS-STAR

BTG OLMYPIA-STAR

Southwest Florida Airports CEW DEFUN Q104 SWABE JOSFF-STAR

RSW and FMY Aircraft through ZHU airspace remain south of ZME and ZTL

airspace

SZW HEVVN Q104 SWABE JOSFF-STAR

Tampa Terminal Area CEW DEFUN Q104 HEVVN DARBS-STAR

Aircraft through ZHU airspace remain south of ZME and ZTL

airspace

SZW DARBS-STAR

Tucson DRK PXR

or

MOHAK GBN

# VFR WAYPOINTS VISUAL FLIGHT RULES (VFR) WAYPOINTS

VFR Waypoint names consist of five letters beginning with "VP". Stand-alone VFR Waypoints are portrayed on VFR Charts using the same four-point star symbol currently used for Instrument Flight Rules (IFR) Waypoints.

VFR Waypoints collocated with Visual Checkpoints (Visual Reporting Points) are portrayed with a Visual Check Point flag. The VFR Waypoint name is shown in parentheses adjacent to the Visual Check Point name.

VFR Waypoint names are not intended to be pronounceable and shall not be used in ATC communications.

CAUTION: GPS accuracy necessitates extra vigilance for other aircraft when navigating near any fix retrieved from a GPS database.

# BALTIMORE-WASHINGTON TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPAXI		N38°34.57'/W076°20.38'
VPONX		N39°06.65′/W076°55.92′
VPOOP		N38°56.32'/W076°36.90'
	DOCTON HELIOODTED OHADT	
VDDAV	BOSTON HELICOPTER CHART	
VPBAY	<del></del> -	N42°16.17′/W070°49.48′
VPBLT		N42°19.67′/W070°53.40′
VPCGS		N42°22.08′/W071°03.13′
VPEVS		N42°23.52′/W071°04.10′
VPFEN		N42°12.58′/W071°08.88′
VPFRE		N42°25.03′/W071°12.32′
VPGVL		N42°21.88′/W070°52.18′
VPHAM	<del></del> -	N42°30.13′/W071°07.15′
VPPIK		N42°20.37′/W071°15.93′
VPQUA		N42°12.10′/W071°04.78′
VPQUB		N42°12.60′/W070°59.83′
VPSPF		N42°24.20′/W071°09.47′
VPTOB		N42°31.42′/W070°59.82′
VPWAN		N42°36.88′/W071°19.45′
	<b>BOSTON TERMINAL AREA CHART</b>	
VPCOH	Cohasset	N42°13.58′/W070°48.94′
VPCUT	Cuttyhunk Harbor	N41°25.50′/W070°55.03′
VPFRA	Framingham Shopping Center	N42°18.16′/W071°23.65′
VPHOL	Woods Hole	N41°31.06′/W070°40.60′
VPHUL	Hull	N42°18.20′/W070°55.30′
VPLPT	Nantucket Great Point	N41°23.41′/W070°02.78′
VPNED	Needham Towers	N42°18.51′/W071°14.64′
VPPEA	Peabody Shopping Center	N42°32.52′/W070°56.69′
VPROC	Rockingham Race Track	N42°46.29′/W071°13.57′
VPSCI	Scituate	N42°11.89′/W070°43.69′
VPTPT	Nantucket Third Point	N41°18.51′/W070°03.37′
VPTUC	Tuckernuck	N41°18.31′/W070°15.43′
VPWAK	Wakefield	N42°30.72′/W071°05.24′
VPWAN	Wang Towers	N42°36.88′/W071°19.45′
	CHARLOTTE SECTIONAL CHART	
VPATO		N34°37.37′/W076°31.47′
VPAVA		N34°57.00′/W077°16.50′
VPBFE		N32°16.38′/W080°47.50′
VPBRA		N36°13.75′/W076°08.08′
VPGCE		N36°03.90′/W076°36.42′
VPGHI		N35°15.30′/W075°31.25′
VPGIO		N35°32.50′/W076°37.33′
VPKJU		N35°26.58′/W076°10.22′
VPLMN		N34°55.43′/W077°46.42′
VPMAB	<del></del> -	N34°42.20′/W077°03.50′
VPNPO	ISLE OF PALMS	N32°47.78′/W079°46.45′
VPOKY	ISEE STITTEMS	N35°06.53′/W075°59.17′
VPREP		N32°33.98′/W080°21.82′
VPRRS		N33°25.45′/W079°07.60′
VPUMO		N35°35.63′/W075°28.08′
VPWZO		N36°00.87′/W075°40.07′
VPWZO		N32°01.62′/W080°53.42′
VI 41L		NOZ U1.UZ / WUOU 00.42

# CHICAGO SECTIONAL CHART

CHICAGU SECTIONAL CHART			
WAYPOINT IDENT VPCOH	COLLOCATED VFR CHECKPOINT	<b>LOCATION</b> N31°49.35′/W081°51.07′	
DENVER TERMINAL AREA CHART/FLYWAY CHART			
VPBEN		N39°44.28′/W104°26.00′	
VPFTG		N39°44.35′/W104°32.75′	
VPNIC	NORTH INTERCHANGE	N39°58.90′/W104°59.27′	
HOU	JSTON TERMINAL AREA CHART/FLYWAY	CHART	
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION	
VPBWY		N29°46.25'/W095°09.24'	
VPDTN		N29°46.59′/W095°22.01′	
VPGLA		N30°08.32'/W095°06.62'	
VPGLB		N30°07.80′/W094°55.70′	
VPKTY		N29°47.05′/W095°44.92′	
VPPLN		N30°08.80′/W095°50.42′	
VPRSN		N29°30.00′/W095°41.00′	
VPSND		N29°23.13′/W095°28.86′	
VPSNT		N29°49.29′/W094°53.94′	
VPTNE		N29°47.48′/W095°03.34′	
VPTNW		N29°47.06′/W095°33.81′	
VPTRK	<del></del>	N29°24.06′/W095°10.44′	
	JACKSONVILLE SECTIONAL CHART		
VPAFI		N31°49.35′/W081°51.07′	
VPAFY		N30°07.00′/W081°21.33′	
VPBEC		N29°46.25′/W081°15.10′	
VPCJA		N29°30.00′/W081°06.00′	
VPCKY		N28°46.50′/W082°34.00′	
VPCNY	DADE OITY	N28°30.00′/W080°45.00′	
VPDAD	DADE CITY	N28°22.57′/W082°11.25′	
VPDAR VPDFI		N31°22.38′/W081°24.13′ N29°00.17′/W081°20.85′	
VPDUT		N27°37.70′/W082°09.10′	
VPEAR	CLEARWATER BEACH	N27°58.67′/W082°49.83′	
VPEGV	CELARWATER BEACTI	N29°39.97′/W081°24.87′	
VPFFU		N28°57.08′/W081°00.33′	
VPGPE	ST PETE BEACH	N27°43.50′/W082°44.67′	
VPHAA	of Fere benon	N30°04.02′/W083°40.02′	
VPHUC		N28°19.87′/W082°43.77′	
VPIWA	MIDWAY	N31°48.33′/W081°25.85′	
VPJMY		N29°26.92′/W081°18.27′	
VPKER	LAKE PARKER	N28°04.00′/W081°56.00′	
VPLEV		N28°48.00′/W080°52.00′	
VPLJA		N29°00.00′/W080°51.00′	
VPMAI		N30°50.02′/W084°56.63′	
VPTLH		N30°32.70′/W083°52.22′	
VPXZY		N29°35.00′/W083°10.00′	
VPYIW		N30°42.28′/W081°27.25′	
VPZIE	<del></del>	N32°01.62′/W080°53.42′	
	KANSAS CITY SECTIONAL CHART		
VPAGO		N37°50.33′/W090°29.03′	
VPBEK		N37°15.07′/W092°30.67′	
VPDEN		N37°46.75′/W092°19.20′	
VPENE		N37°44.75′/W091°55.78′	
VPESS		N36°59.48′/W091°00.88′	
VPFME		N37°41.00′/W092°38.33′	
VPGXY		N37°15.50′/W091°40.17′	
VPMBE		N37°11.08′/W090°27.92′	
VPMKE		N37°24.47′/W092°40.00′	
VPROV		N38°01.72′/W091°12.81′	
VPUTT		N37°52.05′/W092°01.20′	

# VFR WAYPOINTS

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WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPWOC		N37°18.03′/W092°18.63′
VPWRO		N37°39.12′/W091°45.68′
VPXIZ		N37°26.60′/W092°05.42′
VI AIL		1107 20.00 / 11032 00.42
	KANSAS CITY TERMINAL AREA CHAR	Т
VPATN	ATCHISON	N39°33.62′/W095°07.65′
VPBGS	BLUE SPRINGS	N39°01.82′/W094°16.32′
VPBSP	BONNER SPRINGS	N39°03.78′/W094°53.10′
VPCHB	CHOUTEAU BRIDGE	N39°08.77′/W094°32.03′
VPDS0	DE SOTO	N38°58.68'/W094°58.48'
VPESG	EXCELSIOR SPRINGS	N39°20.68′/W094°13.77′
VPGTB	GARRETSBURG	N39°40.92′/W094°41.45′
VPLAT	LATHROP WATER TANK	N39°32.87′/W094°20.00′
VPLEN	LENEXA	N38°57.77′/W094°43.68′
VPLVL	LONGVIEW LAKE	N38°54.63′/W094°28.28′
VPMCL	MC LOUTH	N39°11.65′/W095°12.50′
VPNHA	NASHUA	N39°17.83′/W094°34.80′
VPSCX	SPORTS COMPLEX	N39°03.00′/W094°29.02′
VPSKR	SUGAR CREEK REFINERY	N39°07.00′/W094°27.02′
VPSPK	SWOPE PARK	N39°00.47′/W094°31.93′
VPTSK	TWIN STACKS	N39°09.05′/W094°38.22′
VPWOF	WORLDS OF FUN	N39°10.42′/W094°29.12′
	KLAMATH FALLS SECTIONAL CHART	
VP-0-0	KLAMATH TALLS SECTIONAL CHART	
VPORO		N43°57.38′/W123°02.22′
	LOS ANGELES HELICOPTER CHART	
VPANA		N22944 42/ /M44479E0 02/
VPART	MAGNOLIA	N33°44.43′/W117°50.03′ N33°51.45′/W117°58.92′
VPAUT	HWY 91 & 55	N33°50.63′/W117°49.57′
VPBOB	11W1 91 & 55	N33°59.60′/W117°21.45′
VPCAR		N33°49.90′/W118°17.23′
VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61′
VPCOR	CONESO GIVADE OS TIWI 101	N33°52.90′/W117°32.95′
VPCRX		N34°01.40′/W117°44.88′
VPCSU	CSU CHANNEL ISLANDS	N34°09.76′/W119°02.53′
VPDOW	OGG GITHWINE IGENIADO	N33°56.47′/W118°05.80′
VPELA		N34°00.98′/W118°10.35′
VPETY		N33°38.70′/W117°44.12′
VPFCB		N34°02.03′/W118°01.63′
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71′/W119°10.39′
VPGOL		N34°09.33′/W118°17.37′
VPIMP		N33°55.85′/W118°16.85′
VPKAT		N33°48.23′/W117°54.22′
VPKEL		N34°03.92′/W117°48.40′
VPLAC		N34°03.75′/W118°14.93′
VPLLU		N34°03.85′/W117°17.82′
VPLQM	QUEEN MARY	N33°45.17′/W118°11.37′
VPLRT	SANTA ANITA RACE TRACK	N34°08.45′/W118°02.65′
VPLVT	VINCENT THOMAS BRIDGE	N33°44.97′/W118°16.32′
VPMDR		N33°59.27′/W118°23.97′
VPNEW	NEWHALL PASS	N34°20.18′/W118°30.72′
VPNUY		N34°09.63′/W118°28.18′
VPPCH		N33°28.07′/W117°40.32′
VPPKC		N34°03.32′/W118°12.83′
VPPOR		N34°00.10′/W117°50.12′
VPRRT		N33°59.37′/W118°16.83′
VPSEP		N34°05.80′/W118°28.63′
VPSFR		N34°17.45′/W118°28.07′

N34°16.62′/W119°08.34′

N34°13.97′/W118°24.60′

SATICOY BRIDGE

VPSTC

VPSTK

# LOS ANGELES SECTIONAL CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61′
VPCSU	CSU CHANNEL ISLANDS	N34°09.76′/W119°02.53′
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71′/W119°10.39′
VPSTC	SATICOY BRIDGE	N34°16.62′/W119°08.34′

# LOS ANGELES TERMINAL AREA CHART/FLYWAY CHART

VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61′
VPCSU	CSU CHANNEL ISLANDS	N34°12.54 /W118°59.61 N34°09.76'/W119°02.53'
VPGTY	GETTY CENTER	N34°04.84′/W118°28.66′
VPLBP	BANNING PASS	N33°56.05′/W116°59.63′
VPLBP	CHAFFEY COLLEGE	N34°08.87′/W117°34.33′
VPLCC		•
	CAJON PASS	N34°18.07′/W117°27.68′
VPLDL VPLDP	DISNEYLAND DANA POINT	N33°48.72′/W117°55.13′
==:		N33°27.62′/W117°42.87′
VPLDS	DODGER STADIUM	N34°04.42′/W118°14.42′
VPLFX	91/605 INTERCHANGE	N33°52.38′/W118°06.08′
VPLGP	GRIFFITH PARK OBSERVATORY	N34°07.10′/W118°18.02′
VPLHF	110/405 FWYS	N33°51.42′/W118°17.10′
VPLHP	HUNTINGTON PIER	N33°39.32′/W118°00.25′
VPLKH	KING HARBOR	N33°50.75′/W118°23.88′
VPLLC	L.A. COLISEUM	N34°00.83′/W118°17.27′
VPLLM	LAKE MATHEWS	N33°50.58′/W117°26.85′
VPLMM	MAGIC MOUNTAIN	N34°26.20′/W118°36.28′
VPLMS	MILE SQUARE PARK	N33°43.40′/W117°56.77′
VPLPD	PRADO DAM	N33°53.40′/W117°38.48′
VPLPP	PACIFIC PALISADES	N34°02.13′/W118°32.15′
VPLQM	QUEEN MARY	N33°45.17′/W118°11.37′
VPLRB	ROSE BOWL	N34°09.67′/W118°10.05′
VPLRT	SANTA ANITA RACE TRACK	N34°08.45′/W118°02.65′
VPLSA	SANTA ANA CANYON	N33°52.03′/W117°42.68′
VPLSB	SANTA FE FLOOD BASIN	N34°07.72′/W117°57.30′
VPLSC	STATE COLLEGE	N33°52.97′/W117°53.13′
VPLSF	SAN FERNANDO RESERVOIR	N34°17.87′/W118°29.00′
VPLSP	SIGNAL PEAK	N33°36.33'/W117°48.63'
VPLSR	HAWTHORNE & 405 FREEWAY	N33°53.07′/W118°21.13′
VPLSS	SANTA SUSANA PASS	N34°16.00′/W118°38.43′
VPLTW	TUJUNGA WASH & FOOTHILL	N34°16.40′/W118°20.30′
VPLVT	VINCENT THOMAS BRIDGE	N33°44.97′/W118°16.32′
VPLWT	WATER TANK	N34°10.82′/W118°46.27′
VPNEW	NEWHALL PASS	N34°20.18′/W118°30.72′
VPSTC	SATICOY BRIDGE	N34°16.62′/W119°08.34′
		,

# MIAMI SECTIONAL CHART

VPACH	HOLLYWOOD BEACH	N26°00.92′/W080°06.93′
VPBOV		N27°57.00′/W080°46.75′
VPCLE		N26°27.07′/W082°00.88′
VPCTE		N26°09.28′/W081°20.70′
VPDAD	DADE CITY	N28°22.57′/W082°11.25′
VPDUT		N27°37.70′/W082°09.10′
VPDZE		N27°19.00′/W080°44.17′
VPEAR	CLEARWATER BEACH	N27°58.67′/W082°49.83′
VPEDY	ANDYTOWN TOLLGATE	N26°08.78′/W080°28.00′
VPFAH		N26°25.40′/W081°29.67′
VPGPE	ST PETE BEACH	N27°43.50′/W082°44.67′
VPHRO		N27°05.97′/W082°12.20′
VPHUC		N28°19.87′/W082°43.77′
VPIBR		N27°12.47′/W081°40.22′
VPKER	LAKE PARKER	N28°04.00′/W081°56.00′
VPKOE		N24°40.08′/W081°20.55′
VPLYY		N24°49.07′/W080°49.17′
VPMBO	GULFSTREAM PARK	N25°58.57′/W080°08.17′
VPOBA	PUMPING STATION	N26°28.30′/W080°26.75′
VPRBI		N25°50.67′/W080°55.18′
VPRNL	RANGER STATION	N25°22.92′/W080°36.58′
VPWMO		N27°03.00′/W080°35.00′

# MIAMI TERMINAL AREA CHART/FLYWAY CHART

	MIAMI TERMINAL AREA CHARI/FLY	WAY CHARI
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPACH	HOLLYWOOD BEACH	N26°00.92′/W080°06.93′
VPEDY	ANDYTOWN TOLLGATE	N26°08.78′/W080°28.00′
VPMBO	GULESTREAM PARK	N25°58.57′W080°08.17′
VPOBA	PUMPING STATION	N26°28.30′/W080°26.75′
VPRBI		N25°50.67′/W080°55.18′
VPRNL	RANGER STATION	N25°22.92′/W080°36.58′
	NEW ORLEANS SECTIONAL O	CHART
VPGPT		N30°25.95′/W089°05.62′
VPLIP	PHILLIPS INLET	N30°16.23′/W085°59.25′
VPMAI		N30°50.02′/W084°56.63′
VPMOB		N30°23.00′/W088°31.72′
VPRAM		N30°18.95′/W089°35.88′
VPRER		N30°13.87′/W085°20.67′
VPRIV		N30°54.85′/W087°57.82′
VPSAW		N30°49.65′/W089°07.42′
VPTHR		N30°19.93′/W087°08.50′
	NEW YORK HELICOPTER CI	HART
VPJAY	NEW TORK HELIOOF TER OF	N40°59.00′/W073°07.00′
VPLYD		N40°57.37′/W073°29.59′
VPROK		N40°52.70′/W073°44.24′
VIIIOII		
	PHOENIX TERMINAL AREA CHART/FI	LYWAY CHART
VPALL	ALLENVILLE	N33°20.97′/W112°35.20′
VPAQU	AQUEDUCT PUMPING STATION	N33°40.05′/W112°41.38′
VPARM	ARROWHEAD MALL	N33°38.52′/W112°13.48′
VPAWG	AHWATUKEE GOLF COURSE	N33°19.98′/W111°59.08′
VPAZM	ARIZONA MILLS	N33°23.43′/W111°57.88′
VPBAR	BARTLETT DAM	N33°49.10′/W111°37.92′
VPCCC	COUNTRY CLUB & CANAL	N33°30.73′/W111°50.37′
VPCNL	CANAL	N33°33.23′/W111°46.89°
VPFRB	FIREBIRD LAKE	N33°16.35′/W111°58.10′
VPFTN	FOUNTAIN HILLS	N33°36.12′/W111°42.72′
VPGLX	GILA CROSSING	N33°16.55′/W112°10.08′
VPGPP	GLENDALE POWER PLANT	N33°33.27′/W112°13.00′
VPMAR	MARICOPA	N33°03.42′/W112°02.88′
VPMHS	MESQUITE HIGH SCHOOL	N33°20.53′/W111°49.58′
VPNRV	NEW RIVER	N33°55.08′/W112°08.45′
VPNTT	NORTH TEST TRACK	N33°03.50′/W111°55.83′
VPPIR	PIR	N33°22.52′/W112°18.90′
VPQTR	QUINTERO GOLF COURSE	N33°49.53′/W112°23.58′
VPRVC	RIO VERDE COMMUNITY	N33°44.37′/W111°39.62′
VPSMC	SOUTH MOUNTAIN COLLEGE	N33°23.02′/W112°02.12′
VPSQP VPSSS	SQUAW PEAK SUPERSTITION SPRINGS MALL	N33°32.83′/W112°01.27′ N33°23.50′/W111°41.37′
VPSTN	SANTAN MOUNTAINS	N33°09.23′/W111°40.92′
VPSTT	SOUTH TEST TRACK	N32°56.25′/W111°59.67′
VPZZZ	SOUTH TEST TRACK	N33°20.18′/W111°26.53′
VFZZZ		
	ST LOUIS TERMINAL AREA CHART/FI	LYWAY CHART
VPAGN	TV ANTENNA	N38°32.08′/W090°22.42′
VPBPE		N38°23.80′/W090°20.38′
VPCJY	HOLIDAY SHORES	N38°55.00′/W089°56.00′
VPCOJ	WINFIELD DAM	N39°00.28′/W090°41.23′
VPDFA	JEFFERSON BARRACKS BRIDGE	N38°29.18′/W090°16.47′
VPEAZ	BUSCH STADIUM	N38°37.43′/W090°11.55′
VPEDZ	WATER TANKS	N38°45.30′/W090°34.87′
VPEGR	GAS TANKS	N38°35.80′/W090°19.32′
VPEOX	ST PETERS	N38°47.17′/W090°39.25′

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPFAI	HOWELL ISLAND	N38°40.00′/W090°43.00′
VPFFY		N38°55.37′/W090°17.30′
VPGPF		N38°35.60′/W090°26.92′
VPGVI		N38°32.30′/W090°27.80′
VPHRQ	CHAIN OF ROCKS BRIDGE	N38°45.88′/W090°10.42′
VPIBO	WATERLOO	N38°20.00′/W090°09.00′
VPJMU	HORSESHOE LAKE	N38°41.00′/W090°05.00′
VPKNY	PACIFIC	N38°29.00′/W090°44.00′
VPLES	ST CHARLES	N38°47.00′/W090°30.00′
VPLIW	SIX FLAGS	N38°30.67′/W090°40.47′
VPLXU	GATEWAY ARCH	N38°37.50′/W090°11.00′
VPNSY	WOOD RIVER REFINERIES	N38°50.00′/W090°05.00′
VPNZY	WENTZVILLE	N38°48.83′/W090°50.98′
VPRAZ	JERSEYVILLE	N39°07.00′/W090°20.00′
VPRMO	FOREST PARK	N38°38.00′/W090°17.00′
VPWKO	COLUMBIA	N38°27.00′/W090°12.00′
VPXXI	MILLSTADT	N38°27.50′/W090°05.68′
VPYID	MOSENTHEIN ISLAND	N38°43.00′/W090°12.25′

# SALT LAKE CITY HELICOPTER CHART

VPAIR	SALTAIR	N40°44.85′/W112°11.22′
VPBEE	SOUTH INTERCHANGE	N40°38.18'/W111°54.23'
VPBRN	BARN	N40°54.28′/W112°10.15′
VPCAP	STATE CAPITOL	N40°46.67′/W111°53.25′
VPCHS		N40°42.28'/W112°05.92'
VPCOP	BINGHAM COPPER MINE	N40°31.38′/W112°09.00′
VPCWY	CAUSEWAY	N41°05.37′/W112°07.17′
VPCYN	PARLEYS CANYON	N40°42.67′/W111°48.10′
VPFPC	FREE PORT CENTER	N41°05.92'/W112°02.27'
VPFPK	FRANCIS PEAK	N41°01.98'/W111°50.30'
VPGFS	GARFIELD STACK	N40°43.28′/W112°11.88′
VPHVE	SPAGHETTI BOWL	N40°43.50′/W111°54.22′
VPJRT	JORDAN RIVER TEMPLE	N40°35.02′/W111°55.58′
VPKSL	KSL ANTENNA	N40°46.80′/W112°05.80′
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08′/W111°53.57′
VPMDH	MCKAY DEE HOSPITAL	N41°11.50′/W111°57.08′
VPMMT	MICROWAVE TOWERS	N40°48.50′/W111°53.37′
VPMSH		N41°01.67′/W112°02.47′
VPNSL		N40°50.15′/W111°54.90′
VPNTP		N41°03.57′/W112°14.23′
VPOGE	GRAIN ELEVATOR	N41°13.13′/W112°00.45′
VPOPS	POWER STATION	N41°20.38′/W112°02.78′
VPPEN	STATE PRISON	N40°29.88′/W111°53.62′
VPPPT	PROMONTORY POINT	N41°12.28′/W112°25.73′
VPPTM	POINT OF THE MOUNTAIN	N40°27.42′/W111°54.83′
VPPVO	PROVO CANYON	N40°18.77′/W111°39.45′
VPRWY		N40°48.48′/W112°00.33′
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83′/W111°54.85′
VPTIP	SOUTH TIP	N40°50.93′/W112°10.92′
VPWBR	WEBER CANYON	N41°08.17′/W111°54.83′
VPWBT		N40°38.00′/W112°03.33′

# SALT LAKE CITY TERMINAL AREA CHART/FLYWAY CHART

VII VIII VIII VIII VIII					
VPAIR	SALTAIR	N40°44.85′/W112°11.22′			
VPBEE	SOUTH INTERCHANGE	N40°38.18′/W111°54.23′			
VPBRN	BARN	N40°54.28′/W112°10.15′			
VPCAP	STATE CAPITOL	N40°46.67′/W111°53.25′			
VPCHS		N40°42.28′/W112°05.92′			
VPCOP	BINGHAM COPPER MINE	N40°31.38′/W112°09.00′			
VPCVI	CENTERVILLE INTERCHANGE	N40°55.30′/W111°53.43′			
VPCWY	CAUSEWAY	N41°05.37′/W112°07.17′			
VPCYN	PARLEYS CANYON	N40°42.67′/W111°48.10′			
VPFPC	FREE PORT CENTER	N41°05.92′/W112°02.27′			
VPFPK	FRANCIS PEAK	N41°01.98′/W111°50.30′			
VPGFS	GARFIELD STACK	N40°43.28′/W112°11.88′			

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPHVE	SPAGHETTI BOWL	N40°43.50′/W111°54.22′
VPJRT	JORDAN RIVER TEMPLE	N40°35.02′/W111°55.58′
VPKSL	KSL ANTENNA	N40°46.80′/W112°05.80′
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08'/W111°53.57'
VPMDH	MCKAY DEE HOSPITAL	N41°11.50′/W111°57.08′
VPMMT	MICROWAVE TOWERS	N40°48.50′/W111°53.37′
VPMSH		N41°01.67'/W112°02.47'
VPNSL		N40°50.15′/W111°54.90′
VPNTP		N41°03.57′/W112°14.23′
VPOGE	GRAIN ELEVATOR	N41°13.13′/W112°00.45′
VPOPS	POWER STATION	N41°20.38′/W112°02.78′
VPPEN	STATE PRISON	N40°29.88'/W111°53.62'
VPPPT	PROMONTORY POINT	N41°12.28′/W112°25.73′
VPPTM	POINT OF THE MOUNTAIN	N40°27.42′/W111°54.83′
VPPVO	PROVO CANYON	N40°18.77′/W111°39.45′
VPRWY		N40°48.48′/W112°00.33′
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83′/W111°54.85′
VPTIP	SOUTH TIP	N40°50.93'/W112°10.92'
VPUOU	U OF U EVENTS CENTER	N40°45.73′/W111°50.28′
VPWBR	WEBER CANYON	N41°08.17'/W111°54.83'
VPWBT		N40°38.00′/W112°03.33′
VPZ00	HOGLE ZOO	N40°45.00′/W111°48.95′

# SAN DIEGO TERMINAL AREA CHART/FLYWAY CHART

VPLDP	DANA POINT	N33°27.62′/W117°42.87′
VPLSP	SIGNAL PEAK	N33°36.33′/W117°48.63′
VPOCN		N33°14.15′/W117°26.63′
VPSBC	BARONA CASINO	N32°56.25′/W116°52.60′
VPSBL		N33°05.18'/W117°18.55'
VPSBM	BLACK MOUNTAIN	N32°58.87'/W117°07.00'
VPSCF		N32°48.55′/W117°09.17′
VPSCM	COWLES MOUNTAIN	N32°48.72′/W117°01.97′
VPSCP	CRYSTAL PIER	N32°47.77′/W117°15.42′
VPSCR		N32°39.37′/W117°07.30′
VPSFB	IRON MOUNTAIN	N32°58.25′/W116°57.33′
VPSLJ	LAKE JENNINGS	N32°51.53′/W116°53.28′
VPSMB		N32°45.57′/W117°12.22′
VPSMP		N33°22.70′/W117°36.75′
VPSMS	MOUNT SOLEDAD	N32°50.40′/W117°15.10′
VPSMV		N32°45.75′/W117°09.80′
VPSMW	MOUNT WOODSON	N33°00.52′/W116°58.23′
VPSOP	OTAY MESA PRISON	N32°35.82′/W116°55.28′
VPSOT	LOWER OTAY LAKE	N32°37.73′/W116°55.38′
VPSPL	SOUTH POINT LOMA	N32°39.90′/W117°14.55′
VPSPP	POWER PLANT	N33°08.25′/W117°20.23′
VPSQS	QUALCOMM STADIUM	N32°46.98′/W117°07.23′
VPSRT	DEL MAR RACE TRACK	N32°58.58′/W117°15.95′
VPSSM	SAN MIGUEL MOUNTAIN	N32°41.78′/W116°56.18′
VPSSV	SAN VICENTE ISLAND	N32°55.53′/W116°55.00′
VPSTP	TORREY PINES GOLF COURSE	N32°54.17′/W117°14.68′
VPSVA		N33°11.48′/W117°16.38′

# SAN FRANCISCO SECTIONAL CHART

VPKBG KINGSBURY GRADE N38°58.75′/W119°53.20′

# SAN FRANCISCO TERMINAL AREA CHART/FLYWAY CHART

VPALT	ALTAMONT PASS	N37°44.35′/W121°35.42′
VPANT	ANTIOCH BRIDGE	N38°01.45′/W121°45.02′
VPBBR	BENICIA BRIDGE	N38°02.50′/W122°07.45′
VPCAL	CALAVERAS RESERVOIR	N37°28.16′/W121°48.93′
VPCBT	LAKE CHABOT	N37°43.68′/W122°06.94′
VPCOY	COYOTE HILLS	N37°32.50′/W122°05.06′
VPCQZ	CARQUINEZ BRIDGE	N38°03.66′/W122°13.52′
VPCRL		N37°11.00′/W121°41.06′
VPCRY	CRYSTAL SPRINGS CAUSEWAY	N37°30.56′/W122°21.10′

# **VFR WAYPOINTS**

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCSH	CAL STATE UNIVERSITY	N37°39.52′/W122°03.52′
VPDAM	DEL VALLE DAM	N37°36.91′/W121°44.78′
VPDLR		N37°07.00′/W121°47.06′
VPDUB	DUBLIN	N37°42.06′/W121°55.36′
VPEMB	EMBASSY SUITES	N37°26.05′/W121°53.83′
VPGGF	GOLDEN GATE FIELDS	N37°53.07′/W122°18.71′
VPGIL	GILROY	N37°01.37′/W121°33.99′
VPHHH	HAMILTON	N38°03.58′/W122°30.66′
VPKGO	KG0	N37°31.58′/W122°06.10′
VPLEX	LEXINGTON RESERVOIR	N37°11.66′/W121°59.18′
VPMID	MID-SPAN SAN MATEO BRIDGE	N37°36.28′/W122°11.81′
VPMOR	MORMON TEMPLE	N37°48.46′/W122°11.95′
VPNUM	NUMMI PLANT	N37°29.56′/W121°56.58′
VPPAC		N37°38.00′/W122°32.07′
VPPRU	PRUNEYARD	N37°17.33′/W121°56.01′
VPSAR	SARATOGA	N37°15.26′/W122°02.33′
VPSLA	SLAC/LINEAR ACCELERATOR	N37°24.75′/W122°14.35′
VPSTB	STINSON BEACH	N37°54.45′/W122°40.41′
VPSUN	SUNOL GOLF COURSE	N37°34.85′/W121°53.23′
VPUTC	U.T.C.	N37°13.93′/W121°41.35′
VPWAL	WALNUT CREEK	N37°53.78′/W122°04.30′
VPWAM		N37°30.28′/W122°10.00′
VPWFR	CEMENT PLANT	N37°30.88′/W122°12.26′

# TAMPA/ORLANDO TERMINAL AREA CHART/FLYWAY CHART

VPBOV		N27°57.00′/W080°46.75′
VPCNY		N28°30.00′/W080°45.00′
VPDAD	DADE CITY	N28°22.57′/W082°11.25′
VPDFI		N29°00.17'/W081°20.85'
VPDUT		N27°37.70′/W082°09.10′
VPEAR	CLEARWATER BEACH	N27°58.67′/W082°49.83′
VPFFU		N28°57.08′/W081°00.33′
VPGPE	ST PETE BEACH	N27°43.50′/W082°44.67′
VPHUC		N28°19.87′/W082°43.77′
VPKER	LAKE PARKER	N28°04.00'/W081°56.00'
VPLEV		N28°48.00′/W080°52.00′
VPLJA		N29°00.00′/W080°51.00′

# WASHINGTON SECTIONAL CHART

	WHOM OLD HOME ON HE	•
VPACE		N38°07.82′/W076°48.75′
VPAXI		N38°34.57′/W076°20.38′
VPBRA		N36°13.75′/W076°08.08′
VPGCE		N36°03.90′/W076°36.42′
VPWZO		N36°00.87'/W075°40.07'

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# VOR RECEIVER CHECK

# VOR RECEIVER CHECKPOINTS AND VOR TEST FACILITIES (VOT)

The use of VOR airborne and ground checkpoints is explained in Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

NOTE: Under columns headed "Type of Checkpoint" & "Type of VOT Facility" G stands for ground. A/ stands for airborne followed by figures (2300) or (1000–3000) indicating the altitudes above mean sea level at which the check should be conducted. Facilities are listed in alphabetical order, in the state where the checkpoints or VOTs are located.

# **ARKANSAS**

# **VOR RECEIVER CHECKPOINTS**

		Type Check Pt. Gnd.	Azimuth from Fac.	Dist. from Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Flippin	112.8/FLP	A/1900	053	6.0	Over water tower at Mountain Home.
Fort Smith (Fort Smith Rgnl)	110.4/FSM	G	226	5.2	On runup area on twy to Rwy 25.
	110.4/FSM	G	232	6.2	On runup area on twy to Rwy 07.
Gosnell	111.8/GOJ	A/1700	105	7.3	Over railroad bridge at Armorel.
Harrison (Boone County)	112.5/HRO	G	135	4.4	At int of N/S and E/W twys by trml bldg.
Jonesboro (Jonesboro Muni)	108.6/JBR	G	227	3.9	On NE ramp in front of airline terminal.
Little Rock (Adams Field)	113.9/LIT	G	312	3.8	At intersection of Twys G and F. VOR gnd chk point unusable.
Pine Bluff (Grider Field)	113.9/LIT 116.0/PBF	G G	310 182	4.1 4.4	On Twy L at Twy A. Center E/W twys front of twr.

# **LOUISANA**

# **VOR RECEIVER CHECKPOINTS**

		Type			
		Check	Azimuth	Dist.	
		Pt.	from	from	
		Gnd.	Fac.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Alexandria (Alexandria Intl)	116.1/AEX	G	328	4.3	On runup Rwy 32.
Baton Rouge (Baton Rouge Metro, Ryan)	116.5/BTR	A/1500	063	7.2	Over water tank W side of arpt.
Downtown	108.6/DTN	A/1500	290	10.0	Over white water tower in factory complex.
<b>Downtown</b> (Shreveport Downtown)	108.6/DTN	G	278	.4	On NE side of Twy D by FBO parking area.
Lafayette (Lafayette Rgnl)	109.8/LFT	A/1000	343	22.1	Over rotating beacon at St. Landry Parish–Ahart Fld. arpt.

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
	109.8/LFT	G	355	0.5	On Twy F run up area Rwy 04L.
	109.8/LFT	G	341	0.9	On Twy B run up area Rwy 11.
	109.8/LFT	G	025	1.4	On Twy J run up area Rwy 22L.
Lake Charles (Lake Charles Rgnl)	113.4/LCH	A/1000	253	6.2	Over rotg bcn on twr.
Monroe (Monroe Rgnl)	117.2/MLU	G	212	0.7	On Twy G South of twr.
Natchez (Concordia Parish)	110.0/HEZ	A/1000	247	10.5	Over hangar NW end of fld.
Polk (Fort Polk AAF)	108.4/FXU	A/2000	167	4.5	Over water tower.
Reserve (St John The Baptist Parish)	110.8 RQR	A/1500	270	16.8	Over center of bridge.
Tibby (Houma-Terrebonne)	112.0/TBD	A/1000	117	10.7	Over intersection of Rwys 18–36 and 12–30.
Tibby (Thibodaux Muni)	112.0/TBD	A/1000	353°	5.0	Over microwave twr near arpt.

# **VOR TEST FACILITIES (VOT)**

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
New Orleans (Lakefront)	111.0	A/G	Within 5 NM radius
Shreveport Rgnl	108.2	G	between 2000'-3000'.

# MISSISSIPPI VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Caledonia (Columbus AFB)	115.2/CBM	G G G	152 200 298	0.7 0.5 1.5	On S hammerhead. At base ops. On N hammerhead T-38 runup.
Greenville (Mid Delta Rgnl)	110.2/GLH	G	185	2.3	On North ramp.
Fld)	116.7/MCB	A/1400	234	13.3	Over hangar.
Meridian (Key Field)	117.0/MEI	G	127	4.0	On ramp in front of terminal building.
Natchez (Hardy–Anders Fld Natchez–Adams Co)	110.0/HEZ	G	143	0.5	On taxiway at apch end Rwy 31.

# **VOR TEST FACILITIES (VOT)**

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
Jackson-Evers Intl	111.0	G	

# VOR RECEIVER CHECK OKLAHOMA

# **VOR RECEIVER CHECKPOINTS**

		Type Check Pt.	Azimuth from	Dist. from	
		Gnd.	Fac.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Ada	117.8/ADH	A/2000	036	5.8	Over railroad and east/west highway in center of town of Francis.
Ardmore (Ardmore Muni)	116.7/ADM	A/2000	045	8.4	Over red and white water tower W side of arpt.
Bartlesville (Bartlesville Muni)	117.9/BVO	G	166	4.5	On parallel twy opposite terminal. OTS indef.
Duncan (Halliburton Field)	111.0/DUC	G	327	5.8	At compass rose.
Enid (Vance AFB)	115.4/END	G	015	0.6	On zero runup pad Rwy
					17C.
	115.4/END	G	143	0.8	On zero runup pad Rwy 35R.
	115.4/END	G	160	0.9	On zero runup pad Rwy 35C.
Glenpool (Richard Lloyd Jones Jr)	110.6/GNP	A/2500	348	7.2	Over intersection of rwy south Rwy 13 and Rwy 19R.
Hobart (Hobart Rgnl)	111.8/HBR	A/3500	343	9	Railroad intersection east side of city.
Lawton (Lawton-Fort Sill Rgnl)	109.4/LAW	G	349	4.6	On taxiway between terminal and Rwy 17–35.
McAlester (McAlester Rgnl)	112.0/MLC	G	350	2	At intersection of ramp and twy.
Okmulgee (Okmulgee Rgnl)	114.9/OKM	A/2200	279	10.2	Over intersection N/S railroad and E/W highway.
Ponca City (Ponca City Rgnl)	113.2/PER	G	81	2.9	At Apch end Rwy 17 on Twy A
	113.2/PER	G	107	3.2	At South of ramp on Twy A
Sayre (Sayre Muni)	115.2/SY0	A/3000	175	10.4	VOR ground receiver checkpoints unusable. Over rotating beacon.
Stillwater (Stillwater Rgnl)	108.4/SWO	G	176	4	At intersection of NW ramp and twy D.
Wiley Post (Wiley Post)	113.4/PWA	G	157	0.5	On runup pad to Rwy 35R.
.,,	113.4/PWA	G	007	0.7	On runup area to Rgy 17L.
Will Rogers (Clarence E. Page Muni)	114.1/IRW	A/2900	297	12.8	Over apch end Rwy 35L.
Woodring (Enid Woodring Rgnl)	109.0/ODG	G	352	.5	On ramp W of terminal.

# **VOR TEST FACILITIES (VOT)**

,	VOIL ILSI	I ACILITIES (VOI)	
Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
Oklahoma City (Will Rogers World)	108.8	A/G	Within 10 NM radius between 3000' and 5000' VOT unusable on Twy H and Rwy 17L-35F N of Twy H-2 and Twy E N of Twy E-2/E-3 junction.
Tulsa International	109.0		•

# VOR RECEIVER CHECK TEXAS

# **VOR RECEIVER CHECKPOINTS**

		Type Check Pt. Gnd.	Azimuth from Fac.	Dist. from Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Abilene (Abilene Rgnl)	113.7/ABI	A/2800	047	10.1	Over silos in center of Ft Phantom Lake.
Alice (Alice International)	114.5/ALI	G	272	0.5	On twy near FBO.
Beaumont (Southeast Texas Reg)	114.5/BPT 108.6/BGD	G G	309 173	0.8 6.7	On runup area for Rwy 12. On twy intersection at N end of ramp.
Brownsville (Brownsville/South Padre		_			
Island Intl)	116.3/BRO	G	247	3.2	3.2 NM on hold line Rwy 13R.
Brownwood (Brownwood Rgnl)	108.6/BWD	A/2600	169	6.2	Over rotating bcn.
Childress (Childress Muni)	117.6/CDS	G	353	3.7	At intersection of edge of ramp at center twy.
College Station (Easterwood Field)	113.3/CLL	G	097	3.2	On W edge of parking ramp.
Corpus Christi (Corpus Christi Intl)	115.5/CRP	A/1100	187	9.3	Over Rwy 32 thld.
Daisetta (Liberty Muni)	116.9/DAS	A/1200	195	7.5	Over hangar S of arpt.
Dalhart (Dalhart Muni)	112.0/DHT	A/5000	176	4.1	Over water tower on arpt.
Eagle Lake (Eagle Lake)	116.4/ELA	A/1200	180	4.1	Over water tank 0.4 NM SW of arpt.
Fort Stockton (Fort Stockton-Pecos					
County)	116.9/FST	G	116	4.0	On ramp N of terminal building.
Gray (Skylark fld)	111.8/GRK	G	056	7.6	On NE runup area.
Gregg Co (East Texas Rgnl)	112.3/GGG	G	128	2.4	At N end of ramp on twy to Rwy 13.
Humble (George Bush					
Intercontinental/Houston)	116.6/IAH	G	339	2.2	On runup pad Rwy 08.
Laredo (Laredo International)	117.4/LRD	G	313	4.1	On runup area of Twy F.
	117.4/LRD	G	318	4.8	On runup area of Twy A.
Laughlin (Del Rio Intl)	114.4/DLF	A/2000	268	7.7	Over rotating bcn.
	114.4/DLF	G	198	.5	On ramp AER 31L.
1.111	114.4/DLF	G	275	.9	On ramp AER 13R.
Lubbock	109.2/LBB	A/4500	053	4.5	Over water tank at intersection of railroad & road in New Deal.
Lufkin (Angelina County)	112.1/LFK	A/1300	331	4.6	Over rotating bcn.
Marfa (Marfa Muni)	115.9/MRF	A/6000	280	3.6	Over gray—white tank north edge of town.
McAllen (McAllen Miller Intl)	117.2/MFE	G	331	0.6	.6 NM on cargo ramp.
Midland	114.8/MAF	A/4000	224	11	Over Odessa water tank.
Millsap (Mineral Wells)	117.7/MQP	A/2000	329	6.0	Over spillway of lake N of Mineral Wells arpt.
Paris (Cox Fld)	113.6/PRX	G	348	5.6	At intersection of ramp and E/W twy.
Pecos	111.8/PEQ	A/3600	105	5.5	Over 419' transmission twr E of town of Pecos.
Quitman	114.0/UIM	A/1500	241	14.5	Over water tank in Alba.
Randolph (Randolph AFB)	112.3/RND	G	337	1.0	On AER 14R.

		Type			
		Check	Azimuth	Dist.	
		Pt.	from	from	
		Gnd.	Fac.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Rocksprings	111.2/RSG	A/3800	085	4.8	Over 2804' antenna S of Rocksprings.
San Angelo (San Angelo Rgnl/Mathis Field)	115.1/SJT	G	237	2.6	On E edge of ramp in front of atct.
Scholes (Galveston Intl—Scholes Fld)	113.0/VUH	G	138	.8	Taxiway/runup area East of Rwy 35 thId.
Sinton (Alfred C 'Bubba' Thomas)	115.5/CRP	A/1000	318	9.8	Over rotating bcn on arpt.
Stinson (Stinson Muni)	108.4/SSF	A/2000	337	5.0	Over atct.
Sulphur Springs	109.0/SLR	A/1600	223	7	Over projector booth and snackbar within outdoor theater.
Temple (Draughon–Miller Central Texas Rgnl)	110.4/TPL	G	160	3.6	At edge of ramp and twy in front of refueling office.
<b>Tyler</b> (Tyler Pounds Rgnl)	114.2/TYR	G	082	.5	At intersection twys D and H
Victoria (Victoria Rgnl)	109.0/VCT	G	128	3.2	At approach end of Rwy 12L.
Wichita Falls	112.7/SPS	A/2000	228	19.8	Over spillway at Lake Diversion.
Wichita Falls (Sheppard AFB/Wichita Falls					
Muni)	112.7/SPS	G	093	5.5	On Twy C runup area Rwy 33L.
	112.7/SPS	G	075	5.3	On Twy G AER 33R.
	112.7/SPS	G	064	5.2	On Twy K AER 15L.
	112.7/SPS	G	068	4.7	On Twy H runup area Rwy 15R.
Wink (Winkler County)	112.1/INK	A/3900	149	5.9	Over intersection of rwys 04–22 and 13–31.

# **VOR TEST FACILITIES (VOT)**

· · · · · · · · · · · · · · · · · · ·	VOR IESI	FACILITIES (VOT)	
Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
Dallas Love Field	113.3	A/G	Airborne, use within 10 NM radius of Dallas Love field between 2000' and 10000'.
El Paso International	111.0	G	Used for ground only. Unusable on the west side of hangers south of the intersection of Twy A and the centerline of Rwy 04–22.
Fort Worth Meacham Intl	108.2	G	Used for ground and airborne test. For airborne use within 10 NM radius of Fort Worth Meacham Intl clockwise fr 220°–310° between 2000′ and 5700′.
Houston (William P. Hobby)	108.4	G	
Midland Intl	108.2	G	
San Antonio International	110.4	G	

## PARACHUTE JUMPING AREAS

The following tabulation lists all reported parachute jumping sites in the area of coverage of this directory. Unless otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. The busiest periods of activity are normally on weekends and holidays, but jumps can be expected at anytime during the week at the locations listed. Jumps within restricted airspace are not listed.

All times are local and altitudes MSL unless otherwise specified.

Contact facility and frequency is listed at the end of the remarks, when available, in bold face type.

Refer to Federal Aviation Regulations Part 105 for required procedures relating to parachute jumping.

Organizations desiring listing of their jumping activities in this publication should contact the nearest FSS, tower or ARTCC.

Qualified parachute jumping sites will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jump area is charted.

To qualify for charting, a jump area must meet the following criteria:

- (1) Been in operation for at least 1 year.
- (2) Operate year round (at least on weekends).
- (3) Log 4,000 or more jumps each year.

In addition, jump sites can be nominated by FAA Regions if special circumstances require charting.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
	ARKANSAS		
(c) Blackjack Drop Zone	33 NM; 009° Little Rock	3,000	Mon–Fri 0600–0200 and occasional weekends. Extensive activity, personnel and cargo, including instrument meteorological conditions drops.
Camp Chaffee, Arrowhead Drop Zone	6 NM; 160° Ft. Smith	3,000	Mon-Fri 0600-2300 and occasional weekends.
Camp Robinson-All American Drop Zone	15 NM; 332° Little Rock	3,000	Mon–Fri 0600–0200 and occasional weekends. Extensive activity, personnel and cargo, including instrument meteorological conditions drops.
Conway Drop Zone	24 NM; 334° Little Rock	12,500	0800-SS weekends and occasional weekdays.
(c) Siloam Springs Muni	18 NM; 256° Razorback	15,000	5 NM radius. Sat-Mon 0700-0000.
Texarkana	9 NM; 160° Texarkana	13,000 AGL	0800-SS weekends and occasional weekdays
	LOUISIANA		
(c) Baton Rouge		13,000	Daily SR-SS
(c) Belle Chasse		7,500	Daily SR-SS
Bodcaw		13,000	Daily SR-SS
(c) Breaux Bridge, Bordelon Airpark	,	12,000	Daily SR-SS
(c) Mansfield, CE 'Rusty' Williams Arpt (c) Opelousas, St Landry Parish—Ahart	22 NM; 196° Elm Grove	13,000	3 NM radius. Daily SR-SS
Fld	25 NM; 340° Lafayette	11,500	3NM radius. Weekends 0700-1800.
Slidell Arpt	13.8 NM; 195° Picayune	14,500 AGL	3 NM radius. Daily SR-SS.  Louis Armstrong New Orleans Intl  Tower 133.15.
	MISSISSIPPI		
Artesia, Carson Drop Zone	11 NM; 188° Bigbee	2,000 AGL	Occasional use.
(c) Batesville, Panola County Arpt	26 NM; 220° Holly Springs	10,500 AGL	5 NM radius, Sat-Sun 0900-SS.
Camp McCain Drop Zone	31.9 NM; 067° Sidon	17,999	5 NM radius. Weekdays and weekends, occasional nights, seldom holidays.
Coldwater, Coldwater Drop Zone	20 NM; 170° Memphis	3,000	0600–2330 Mon–Fri and occasional weekends. Military use.
Edwards, Kelly Drop Zone	30 NM; 230° Jackson	2,000 AGL	Occasional use.
Edwards, Noble Drop Zone	31 NM; 225° Jackson	2,000 AGL	Occasional use.
Grenada Drop Zone	32.6 NM; 048° Sidon	17,999	5 NM radius. Weekends, occasional nights, seldom holidays.
Magee Drop Zone	50 NM; 148° Jackson	12,500	SR-SS weekends & holidays. Occasional use by National Guard.
Rolling Fork, Wade Arpt	32 NM; 180° Greenville	12,500	10 NM radius. SR-SS Daily.
	6.5 NM; 289° Caledonia	12,500	Weekends and holidays SR-SS
	28 NM; 190° Jackson	2,000 AGL	Occasional use.
	7 NM; 305° Bigbee	2,000 AGL	Occasional use.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
Yazoo City, Yazoo Co Arpt	27 NM; 322° Jackson	13,000	3 NM radius. 0900–SS weekends and holidays.
	OKLAHOMA		and nondays.
(c) Chickasha, Redhills Arpt		12,000	1 NM radius. Daily SR-SS.
(c) Claremore, Sam Riggs Arpt		11,000	2 NM radius. Weekends, and holidays, SR–SS. Occasional weekday and night jumps.
(c) Cushing Muni	50 NM; 245° Tulsa	14,000	5 NM radius SR until 1 hour after SS daily.
(c) Eldorado, Sooner Drop Zone	22 NM; 247° Altus	12,500 AGL	1 NM radius, Mon-Fri 0700-0200 and occasional weekends. Heavy jet activity, IFR and VFR conditions.
(c) Goldsby, Pardise Air Haven Arpt (c) Grandfield Muni		17,000 13,500	3 NM radius. Continuous. 5 NM radius. SR–SS weekends and holidays; occasional weekdays.
(c) Hinton Muni Arpt(c) Hugo, Nash Muni Arpt Ketchum Craig Co South Grand Lake		16,000 13,000	3 NM radius. Weekends SR-SS. 3 NM radius. Daily SR-SS.
	34 NM; 230° Neosho	12,000	1 NM radius. Daily 0530-2000.
Miami Muni Arpt		13,000	3 NM radius. SR-SS daily.
Okmulgee Rgnl Arpt	4.3 NM; 241° Okmulgee	15,000	3 NM radius. Sat, Sun and holidays SR-SS.
(c) Skiatook		13,000	5 NM radius. Daily SR–SS, occasional ngts.
Tahlequah Muni	41 NM; 105° Tulsa	13,500	5 NM radius. Daily SR-SS.
	TEXAS		
Abilene, Dyess AFB	4 NM; 170° Abilene	3,300	Daily SR-SS
Amarillo, Buffalo Fld	13.5 NM; 213° Panhandle	15,000	Daily SR-SS
(c) Anahuac, Chambers Co Arpt		17,500 15,000 AGL	5 NM radius. Daily SR–SS. Occasional ngts. 0800–1 hour past SS, occasional
(c) Beeville		12,500	ngts. 0900–SS weekends, holidays and
(c) Brookshire, Sport Flyers (Pvt) Arpt		12,000	occasional weekdays.  3 NM radius. Daily 1500–0045.
(c) Bryan, Coulter Fld		13,500	5 NM radius. Daily SR-SS, occasional ngts, occasional weekdays Wed-Fri. Houston Center 120.4
(c) Caddo Mills		15,000	Fri-Sun dalgt hrs, 0600-2100 during summer. UNICOM 122.8/Fort Worth Center 132.02.
Camp Bullis		2,500 AGL	2 NM radius. Continuous.
(c) Camp Swift, Blackwell Drop Zone  Dumas, Moore Co Arpt		1,500 AGL 13,700	Daily, occasional ngts.  3 NM radius. SR–2359 weekends and holidays, 1700–2359 weekdays.
Ennis Muni Arpt(c) Fentress Airpark		12,000 14,000	3 NM radius, Sat-Sun, Holidays 5 NM radius. Weekends SS-SR.
			Occasional weekdays and ngt jumps. Austin–Bergstrom Intl Tower 119.0
(c) Gladewater Muni Arpt (c) Hitchcock, Johnnie Volk Fld (c) Killeen, Ft. Hood,		14,000 12,500 AGL	3 NM radius. 0700–2200 daily. 1 NM radius 0800–SS daily.
	14.5 NM; 087° Gooch Springs	13,000 AGL	Continuous
	25 NM; 053° Gooch Springs	13,000 AGL	0.5 NM radius. Continuous.

# PARACHUTE JUMPING AREAS

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
(c) Kingsville, Kleberg Co Arpt	•	12,500	Weekdays, 1200-SS; Sat, Sun,
(c) milgorino, mossorg oo ript	11.0 1414, 170 /4100	12,000	holidays 0700–SS
(c) Lexington Airfield (Pvt) Arpt	30 NM; 238° College Station	15.500	2 NM radius, Daily SR-Midnight.
(c) Midlake Arpt		15.000	1 NM radius. Daily SR–SS and
(c)a.a.c p.	r run, ee'r euneen minnin	10,000	occasional ngts.
(c) Nome, Farm Air Service (Pvt) Arpt	21 NM: 278° Beaumont	13.500	3 NM radius. Sat, Sun and
(e) nome, rann im cornec (r 14) inpini	21 11111, 210 Bodamont 1111111111	10,000	holidays, SR-SS.
(c) Port Isabel-Cameron Co Arpt	15 NM: 357° Brownsville	15.500	1 NM radius. Daily SR–SS.
(c) I of isabor camoron of Arpt	10 MM, 007 Brownsvine	10,000	Houston Center 119.5
(c) Rhome, Rhome Meadows Arpt	24 NM; 307° Ranger	11.500	2 NM radius, SR–SS Thu–Mon
(c) Rosharon, B&B Airpark (Pvt) Arpt		15.000	2 NM radius. 1200–0200 daily.
(c) Salado Arpt		15.000 AGL	5 NM radius. Continuous.
Seagoville Arpt		13,000	SR-SS weekends and holidays and
			occasional days.
(c) Stanton Muni	21 NM: 051° Midland	14,500	5 NM radius. SR-SS weekends
(1)			and holidays.
Stephenville, Clark Fld Muni	15.5 NM: 279° Glen Rose	13.000	5 NM radius, SR-SS weekends
			and holidays. Ft. Worth Center
			127.15
Terrell Muni Arpt	32 NM; 349° Cedar Creek	13,500	2 NM radius. SR-SS weekends
			and holidays, occasional
			weekdays.
(c) Trenton, Tri-Co Aerodrome	8.6 NM; 230° Bonham	14,500	2 NM radius. Daily 0800-2200.
			Hi-density jump area, pilots are
			advised to monitor UNICOM
			123.075.
(c) Waller, Skydive Houston (Pvt) Arpt	18.9 NM, 151° Navasota	24,000 AGL	3 NM radius, continuous.

## AERONAUTICAL CHART BULLETIN

The purpose of this bulletin is to provide major changes in aeronautical information that have occurred since the last publication date of each Sectional Aeronautical, VFR Terminal Area, and Helicopter Route Charts listed. The general policy is to include only those changes to controlled airspace and special use airspace that present a hazardous condition or impose a restriction on the pilot, and major changes to airports and radio navigational facilities, thereby providing the VFR pilot with the essential data necessary to update and maintain chart currency. The data is grouped by type and then by effective date. When a new edition of the Aeronautical Chart is published, the corrective tabulation will be removed from this bulletin. Inasmuch as this Bulletin provides major changes only, pilots should consult the airport listing in this directory for all new information. Users of U.S. World Aeronautical Charts (WAC) and U.S. Gulf Coast VFR Aeronautical Charts should consult the appropriate Sectional and VFR Terminal Area Charts for revisions.

Military Training Routes (MTRs) are shown on Sectional Aeronautical Charts, VFR Terminal Area, and Helicopter Route Charts. Only the route centerline, direction of flight and the route designator are shown — route widths and altitudes are not shown. Since these routes are subject to change every 56 days and the charts are reissued generally every 6 months, routes with a change in the alignment of the charted route centerline will be listed in this Aeronautical Chart Bulletin below. You are advised to contact the nearest FSS for route dimensions and current status for those routes affecting your flight.

# ALBUQUERQUE SECTIONAL 84th Edition. 22 Oct 2009

**OBSTRUCTIONS** 

22 Oct 2009 - 17 Dec 2009 No Major Changes.

**AIRPORTS** 

22 Oct 2009 - 17 Dec 2009 No Major Changes.

NAVAID

22 Oct 2009 - 17 Dec 2009 No Major Changes.

AIDCDAOE

**22 Oct 2009 – 17 Dec 2009** No Major Changes.

SPECIAL USE AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 - 17 Dec 2009 No Major Changes.

**MISCELLANEOUS** 

22 Oct 2009 - 17 Dec 2009 No Major Changes.

# BROWNSVILLE SECTIONAL 84th Edition, 19 Nov 2009

**OBSTRUCTIONS** 

17 Dec 2009 No Major Changes.

**AIRPORTS** 

17 Dec 2009 No Major Changes.

NAVAIDs

17 Dec 2009 No Major Changes.

17 Dec 1

AIRSPACE 17 Dec 2009 No Major Changes.

**SPECIAL USE AIRSPACE** 

17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

17 Dec 2009 No Major Changes.

MISCELLANEOUS

17 Dec 2009 No Major Changes.

# CG-19 WORLD AERONAUTICAL CHART 39th Edition. 4 Jun 2009

### **OBSTRUCTIONS**

2 Jul 2009 - 17 Dec 2009 No Major Changes.

### **AIRPORTS**

2 Jul 2009 Add arpt elev 1071, lighting code \*L, runway length 71 and unicom at GLENDALE arpt, 33°31′36″N, 112°17′42″W.

27 Aug 2009 – 17 Dec 2009 No Major Changes.

2 Jul 2009 - 17 Dec 2009 No Major Changes.

## **AIRSPACE**

2 Jul 2009 - 17 Dec 2009 No Major Changes.

## **SPECIAL USE AIRSPACE**

2 Jul 2009 - 17 Dec 2009 No Major Changes.

## **MILITARY TRAINING ROUTES**

2 Jul 2009 - 17 Dec 2009 No Major Changes.

### **MISCELLANEOUS**

2 Jul 2009 - 17 Dec 2009 No Major Changes.

# DALLAS-FT. WORTH HELICOPTER ROUTE CHART 4th Edition, 16 Mar 2006

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OBSTRUCTIONS
13 Apr 2006 No Major Changes.
8 Jun 2006 Add obst 1049'MSL (318'AGL), 33°12'08"N, 96°48'14"W.
3 Aug 2006 No Major Changes
28 Sep 2006 Add obst 975'MSL (470'AGL), 32°51'03"N, 96°35'30"W.
23 Nov 2006 - 15 Mar 2007 No Major Changes.
10 May 2007 Add obst 1046' MSL (470' AGL) UC, 33°07'51"N, 97°06'04"W. 5 Jul 2007 Add obst 1059'MSL (319'AGL), 32°37'08"N, 97°12'20"W.
30 Aug 2007 - 20 Nov 2008 No Major Changes.
15 Jan 2009 Add obst 947'MSL (300'AGL)UC, 33°06'56"N, 96°44'23"W.
12 Mar 2009 Add obst 1497'MSL (509'AGL)UC, 32°30'14"N, 97°31'48"W.
7 May 2009 - 22 Oct 2009 No Major Changes.
17 Dec 2009 Add obst 1297'MSL (320'AGL)UC, 33°07'42"N, 97°29'43"W.
AIRPORTS
13 Apr 2006 - 8 Jun 2006 No Major Changes.
3 Aug 2006 Delete TURBOMECA heliport, 32°41′54"N, 97°02′59"W.
Delete TRIPLE S arpt, 32°40′30″N, 97°34′54″W.
28 Sep 2006 Delete CARROLL arpt 32°33'25"N, 96°51'56"W.
23 Nov 2006 No Major Changes.
18 Jan 2007 Add Arlington ATCT 128.625, 32°39′49″N, 97°05′39″W. 15 Mar 2007 Delete Craig Airport, 32°55′00″N, 97°11′01″W.
10 May 2007 No Major Changes.
5 Jul 2007 Change Dallas Executive ATCT frequencies from 120.3 to 127.25, and from 257.8 to 335.6. Add CTAF freq. 122.9 at PROPWASH arpt., 33°04′50″N, 97°21′32″W.
Change CTAF freq. 123.075 to 128.625 at ARLINGTON MUNI arpt, 32°39'49"N, 97°05'39"W.
30 Aug 2007 Delete ALPINE RANGE arpt, 32°36'27"N, 97°14'31"W.
Delete BOE-WRINKLE arpt, 32°54'17"N, 97°35'42"W.
Delete CARROLL LAKE–VIEW arpt, 32°27'45"N, 97°06'51"W. Delete CIRCLE C arpt, 32°53'45"N, 97°17'16"W.
Delete EISENBECK arpt, 32°29'08"N, 96°35'20"W.
Delete FLYING CAP VALLEY arpt, 32°56′11″N, 97°08′07″W.
Delete INTERNATIONAL arpt, 32°56′55″N, 97°19′44″W. Delete MARKUM arpt, 32°41′42″N, 97°30′42″W.
Delete MILLER arpt, 32°34′30″N, 97°05′13″W.
Delete RED ACE arpt, 33°14'30"N, 97°37'16"W.
25 Oct 2007 Change CTAF freq. 120.3 to 127.25 at DALLAS EXECUTIVE arpt, 32°40′51″N, 96°52′05″W. Add CTAF 122.9 at Heritage Creek arpt, 33°10′7″N, 97°29′3″W.
20 Dec 2007 - 2 Jul 2009 No Major Changes.
27 Aug 2009 Delete SAGINAW arpt, 32°51'45"N, 97°22'41"W. 22 Oct 2009 – 17 Dec 2009 No Major Changes.
13 Apr 2006 No Major Changes.
8 Jun 2006 Add LANCASTER NDB, freq. 239, ident (LNC), 32°34'39"N, 96°43'17"W.
3 Aug 2006 - 5 Jul 2007 No Major Changes.
30 Aug 2007 Delete REDBIRD NDB, 32°40′36″N, 96°52′15″W.
25 Oct 2007 - 17 Dec 2009 No Major Changes.
13 Apr 2006 – 27 Aug 2009 No Major Changes.
22 Oct 2009 Add FORT WORTH SPINKS, TX. Class D: That airspace extending upward from the surface up
to but not including 3,000 feet MSL within a 4.1-mile radius of Fort Worth Spinks Airport, and within 1
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22 Oct 2009 Add FORT WORTH SPINKS, TX. Class D: That airspace extending upward from the surface up to but not including 3,000 feet MSL within a 4.1-mile radius of Fort Worth Spinks Airport, and within 1 mile each side of the 173° bearing from the airport extending from the 4.1-mile radius to 4.8 miles south of the airport. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective dates and times will thereafter be continuously published in the Airport/Facility Directory.

17 Dec 2009 Add ARLINGTON, TX Class D: That airspace extending upward from the surface, to but not including 2,000 feet MSL within a 4-mile radius of Arlington Municipal Airport, excluding the portion east of a line between 32°43′48″N, 97°05′06″W, and 32°38′10″N, 97°3′26″W, and 32°36′16″N, 97°03′31″W, and excluding that airspace within the Dallas/Fort Worth, TX, Class B airspace area. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective dates and times will thereafter be continuously published in the Airport/Facility Directory.

Add GRÁND PRAIRIE, TX Class D: That airspace extending upward from the surface, to but not including 2,000 feet MSL within a 3.8-mile radius of Grand Prairie Municipal Airport, excluding the portion west of a line between 32°45′00″N, 97°05′28″W, and 32°38′10″N, 97°03′26″W, and excluding that portion north of a line between 32°45′00″N, 97°05′28″W, and 32°45′00″N, 97°00′10″W, and excluding that airspace within the Dallas/Fort Worth, TX Class B airspace area. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective dates and times will thereafter be continuously published in the Airport/Facility Directory.

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SPECIAL USE AIRSPACE
13 Apr 2006 – 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

13 Apr 2006 - 17 Dec 2009 No Major Changes.

**MISCELLANEOUS** 

13 Apr 2006 Change MEF 14 to 15 in quadrant 33°15′-33°30′N, 96°15′-96°30′W.

6 Jun 2006 - 17 Dec 2009 No Major Changes.

# DALLAS-FT. WORTH SECTIONAL 83rd Edition, 24 Sep 2009

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OBSTRUCTIONS
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22 Oct 2009 Add obst 929'MSL (213'AGL), 33°56'44"N, 96°41'31"W. Add obst 2223'MSL (388'AGL)UC, 34°49'50"N, 98°30'07"W. Add obst 1364'MSL (350'AGL)UC, 34°21'46"N, 98°08'08"W. Add obst 1325'MSL (350'AGL)UC, 34°17'30"N, 97°25'25"W. Add obst 1302'MSL (350'AGL)UC, 34°17'30"N, 97°25'25"W. Add obst 1302'MSL (350'AGL)UC, 34°17'11"N, 97°57'52"W. Add obst 2423'MSL (263'AGL)UC, 32°06'09"N, 100°02'59"W. 17 Dec 2009 Add obst 1261'MSL (410'AGL)UC, 34°51'25"N, 96°25'46"W. Add obst 1328'MSL (331'AGL)UC, 35°07'05"N, 98°53'02"W. Add obst 1328'MSL (331'AGL)UC, 35°07'05"N, 98°53'02"W. Add obst 1328'MSL (332'AGL)UC, 35°07'05"N, 96°55'38"W. Add obst 3259'MSL (332'AGL)UC, 35°07'05"N, 90°55'38"W. Add obst 2196'MSL (385'AGL)UC, 35°07'46"N, 100°56'41"W. Add obst 2294'MSL (300'AGL)UC, 33°09'07"N, 97°57'24"W. Add obst 1354'MSL (320'AGL)UC, 33°09'07"N, 97°57'24"W. Add obst 1012'MSL (360'AGL)UC, 35°07'58"N, 97°29'58"W. Add obst 1418'MSL (310'AGL)UC, 35°06'58"N, 97°29'58"W. Add obst 1553'MSL (349'AGL)UC, 35°06'58"N, 97°29'58"W. Add obst 1714'MSL (305'AGL)UC, 35°06'58"N, 97°29'58"W. Add obst 1714'MSL (305'AGL)UC, 35°06'05"N, 96°35'42"W. Add obst 1714'MSL (305'AGL)UC, 35°06'05"N, 96°35'42"W. Add obst 1314'MSL (305'AGL)UC, 35°06'05"N, 96°35'42"W. Add obst 1314'MSL (305'AGL)UC, 35°06'05"N, 96°35'42"W. Add obst 1314'MSL (305'AGL)UC, 35°06'05"N, 96°35'42"W. Add obst 1365'MSL (349'AGL)UC, 35°07'N, 97°24'22"W. Add obst 1297'MSL (238'AGL)UC, 35°07'N, 97°24'22"W. Add obst 1297'MSL (320'AGL)UC, 35°07'N, 99°53'29"W. Add obst 1297'MSL (349'AGL)UC, 35°31'58"N, 99°57'23"W. Add obst 2898'MSL (415'AGL)UC, 35°31'58"N, 99°55'18"W. Add obst 2898'MSL (415'AGL)UC, 35°31'58"N, 99°57'18"W. Add obst 2898'MSL (415'AGL)UC, 35°31'58"N, 99°57'18"W. Add obst 2838'MSL (415'AGL)UC, 35°31'58"N, 99°54'35"W. Add obst 2338'MSL (415'AGL)UC, 35°31'58"N, 99°57'18"
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### **AIRPORTS**

22 Oct 2009 - 17 Dec 2009 No Major Changes.

### NAVAIDs

22 Oct 2009 - 17 Dec 2009 No Major Changes.

### **AIRSPACE**

**22 Oct 2009** Add FLOYDADA, TX. Class E: That airspace extending upward from 700 feet above the surface within a 6.4-mile radius of Floydada Municipal Airport.

Add FORT WORTH SPINKS, TX. Class D: That airspace extending upward from the surface up to but not including 3,000 feet MSL within a 4.1-mile radius of Fort Worth Spinks Airport, and within 1 mile each side of the 173° bearing from the airport extending from the 4.1-mile radius to 4.8 miles south of the airport. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective dates and times will thereafter be continuously published in the Airport/Facility Directory. Revise ADA, OK. Class E: That airspace extending upward from 700 feet above the surface within a 6.5-mile radius of Ada Municipal Airport, and within 4 miles each side of the 000° bearing from the airport extending from the 6.5-mile radius to 10.3 miles north of the airport, and within 4 miles each side of the 180° bearing from the airport extending from the 6.5-mile radius to 10.9 miles south of the airport, and within 1.6 miles each side of the 354° radial of the Ada VOR extending from the 6.5-mile radius to 11 miles northeast of the airport.

17 Dec 2009 Add MIDLOTHIAN-WAXAHACHIE, TX Class E: That airspace extending upward from 700 feet above the surface within a 6.5-mile radius of Mid-Way Regional Airport and within 1.8 miles each side of the 184° bearing from the airport extending from the 6.5-mile radius to 9.8 miles south of the airport. Add ARLINGTON, TX Class D: That airspace extending upward from the surface, to but not including 2,000 feet MSL within a 4-mile radius of Arlington Municipal Airport, excluding the portion east of a line between 32°43′48″N, 97°05′06″W, and 32°38′10″N, 97°3′26″W, and 32°36′16″N, 97°03′31″W, and excluding that airspace within the Dallas/Fort Worth, TX, Class B airspace area. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective dates and times will thereafter be continuously published in the Airport/Facility Directory.

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Add GRAND PRAIRIE, TX Class D: That airspace extending upward from the surface, to but not including 2,000 feet MSL within a 3.8-mile radius of Grand Prairie Municipal Airport, excluding the portion west of a line between 32°45′00″N, 97°05′28″W, and 32°38′10″N, 97°03′26″W, and excluding that portion north of a line between 32°45′00″N, 97°05′28″W, and 32°45′00″N, 97°00′10″W, and excluding that airspace within the Dallas/Fort Worth, TX Class B airspace area. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective dates and times will thereafter be continuously published in the Airport/Facility Directory.

### SPECIAL USE AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

### MILITARY TRAINING ROUTES

22 Oct 2009 - 17 Dec 2009 No Major Changes.

### **MISCELLANEOUS**

**17 Dec 2009** Change MEF  $2^3$  to  $2^4$  in quadrant  $34^\circ30'-35^\circ00'N,98^\circ00'-98^\circ30'W$ .

Change MEF 29 to 30 in quadrant 35°00'-35°30'N,99°30'-100°00'W.

# DALLAS FT. WORTH TERMINAL AREA CHART 74th Edition, 24 Sep 2009

### OBSTRUCTIONS

22 Oct 2009 No Major Changes.

17 Dec 2009 Add obst 1354'MSL (320'AGL)UC, 33°09'07"N, 97°57'24"W. Add obst 1297'MSL (320'AGL)UC, 33°07'42"N, 97°29'43"W.

### **AIRPORTS**

22 Oct 2009 - 17 Dec 2009 No Major Changes.

### NAVAIDS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

### **AIRSPACE**

**22 Oct 2009** Add FORT WORTH SPINKS, TX. Class D: That airspace extending upward from the surface up to but not including 3,000 feet MSL within a 4.1-mile radius of Fort Worth Spinks Airport, and within 1 mile each side of the 173° bearing from the airport extending from the 4.1-mile radius to 4.8 miles south of the airport. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective dates and times will thereafter be continuously published in the Airport/Facility Directory.

17 Dec 2009 Add MIDLOTHIAN-WAXAHACHIE, TX Class E: That airspace extending upward from 700 feet above the surface within a 6.5-mile radius of Mid-Way Regional Airport and within 1.8 miles each side of the 184° bearing from the airport extending from the 6.5-mile radius to 9.8 miles south of the airport. Add ARLINGTON, TX Class D: That airspace extending upward from the surface, to but not including 2,000 feet MSL within a 4-mile radius of Arlington Municipal Airport, excluding the portion east of a line between 32°43'48"N, 97°05'06"W, and 32°38'10"N, 97°3'26"W, and 32°36'16"N, 97°03'31"W, and excluding that airspace within the Dallas/Fort Worth, TX, Class B airspace area. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective dates and times will thereafter be continuously published in the Airport/Facility Directory. Add GRAND PRAIRIE, TX Class D: That airspace extending upward from the surface, to but not including 2,000 feet MSL within a 3.8-mile radius of Grand Prairie Municipal Airport, excluding the portion west of a line between 32°45'00"N, 97°05'28"W, and 32°38'10"N, 97°03'26"W, and excluding that portion north of a line between 32°45'00"N, 97°05'28"W, and 32°45'00"N, 97°00'10"W, and excluding that airspace within the Dallas/Fort Worth, TX Class B airspace area. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective dates and times will

## SPECIAL USE AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

thereafter be continuously published in the Airport/Facility Directory.

### **MILITARY TRAINING ROUTES**

22 Oct 2009 - 17 Dec 2009 No Major Changes.

### MISCELLANEOUS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

# **EL PASO SECTIONAL** 83rd Edition. 30 Jul 2009

### OBSTRUCTIONS

27 Aug 2009 No Major Changes.

22 Oct 2009 Add obst 4390'MSL (310'AGL)UC, 32°04'52"N, 106°16'32"W.

Add obst 5015'MSL (250'AGL)UC, 30°23'40"N, 102°50'44"W.

17 Dec 2009 No Major Changes.

### **AIRPORTS**

27 Aug 2009 - 17 Dec 2009 No Major Changes.

27 Aug 2009 - 17 Dec 2009 No Major Changes.

27 Aug 2009 - 17 Dec 2009 No Major Changes.

### SPECIAL USE AIRSPACE

27 Aug 2009 - 17 Dec 2009 No Major Changes.

### **MILITARY TRAINING ROUTES**

27 Aug 2009 - 17 Dec 2009 No Major Changes.

### MISCELLANEOUS

27 Aug 2009 - 17 Dec 2009 No Major Changes.

# HOUSTON HELICOPTER ROUTE CHART 6th Edition. 13 Mar 2008

### OBSTRUCTIONS

**10 Apr 2008** Add obst 630'MSL (542'AGL) UC, 29°46'57"N, 95°32'44"W. Add obst 454'MSL (307'AGL), 30°01'10"N, 95°35'57"W. **5 Jun 2008 – 20 Nov 2008** No Major Changes.

15 Jan 2009 Add obst 575'MSL (500'AGL), 29°50'37"N, 95°24'30"W.

12 Mar 2009 No Major Changes. 7 May 2009 Add obst 405'MSL (387'AGL)UC, 29°34'00"N, 95°03'45"W.

2 Jul 2009 No Major Changes

**27 Aug 2009** Add obst 341 MSL (309'AGL), 29°22'30"N, 95°15'857"W. **22 Oct 2009** Add obst 2013'MSL (2000'AGL)UC, 29°18'01"N, 95°06'40"W.

17 Dec 2009 No Major Changes.

### **AIRPORTS**

10 Apr 2008 Delete TEXAS MEDICAL CENTER heliport, 29°42'26"N, 95°23'33"W.

5 Jun 2008 No Major Changes. 31 Jul 2008 Change CTAF 122.8 to 122.9 at FLYIN' B arpt, 29°32′15″N, 95°25′25″W. 25 Sep 2008 – 7 May 2009 No Major Changes.

2 Jul 2009 Delete SKYHAVEN arpt, 29°50′00″N, 95°08′54″W.

27 Aug 2009 - 17 Dec 2009 No Major Changes.

10 Apr 2008 - 17 Dec 2009 No Major Changes.

10 Apr 2008 - 7 May 2009 No Major Changes.

2 Jul 2009 Add CONROE, TX. Class D: That airspace extending upward from the surface to and including 2,700 feet MSL within a 4.1-mile radius of Lone Star Executive Airport, excluding that airspace within the 4.1-mile radius northeast of the intersection of the IAH VORTAC 356° radial and the TNV VORTAC 081° radial. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective date and time will thereafter be continuously published in the Airport/Facility Directory.

Add CÓNROE, TX. Class E: That airspace extending upward from the surface to and including 2,700 feet MSL within a 4.1-mile radius of Lone Star Executive Airport, excluding that airspace within the 4.1-mile radius northeast of the intersection of the IAH VORTAC 356° radial and the TNV VORTAC 081° radial. This Class E airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective date and time will thereafter be continuously published in the Airport/Facility

27 Aug 2009 - 17 Dec 2009 No Major Changes.

### SPECIAL USE AIRSPACE

10 Apr 2008 - 17 Dec 2009 No Major Changes.

# MILITARY TRAINING ROUTES

10 Apr 2008 - 17 Dec 2009 No Major Changes.

10 Apr 2008 - 17 Dec 2009 No Major Changes.

# HOUSTON SECTIONAL 84th Edition, 24 Sep 2009

### OBSTRUCTIONS

22 Oct 2009 Add obst 798'MSL (420'AGL) UC, 32°05'24"N, 90°39'59"W.

Add obst 315'MSL (310'AGL) UC, 29°50'32"N, 92°10'33"W.

Add obst 2013'MSL (2000'AGL) UC, 29°18'01"N, 95°06'40"W.

17 Dec 2009 Add obst 470'MSL (310'AGL)UC, 31°14'44"N, 91°19'10"W.

Add obst 256'MSL (233'AGL)UC, 30°25'47"N, 90°43'02"W. Add obst 699'MSL (320'AGL)UC, 31°29'46"N, 91°14'16"W. Add obst 680'MSL (309'AGL)UC, 30°49'50"N, 96°32'02"W. Add obst 800'MSL (279'AGL)UC, 31°25'52"N, 96°29'45"W.

Add obst 250'MSL (231'AGL)UC, 30°26'08"N, 90°38'21"W. Add obst 286'MSL (255'AGL)UC, 30°36'44"N, 91°57'29"W. Add obst 367'MSL (335'AGL)UC, 30°26'46"N, 92°58'12"W.

22 Oct 2009 Change RP 5W to RP 23W at PINEVILLE MUNI arpt, 31°20'31"N, 92°26'36"W.

17 Dec 2009 No Major Changes.

### **NAVAIDs**

22 Oct 2009 No Major Changes.

17 Dec 2009 Delete WINNFIELD NDB, 31°57′46″N, 92°39′25″W.

### AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

### SPECIAL USE AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

### MILITARY TRAINING ROUTES

22 Oct 2009 - 17 Dec 2009 No Major Changes.

### **MISCELLANEOUS**

22 Oct 2009 - 17 Dec 2009 No Major Changes.

# HOUSTON TERMINAL AREA CHART 72nd Edition, 24 Sep 2009

### **OBSTRUCTIONS**

22 Oct 2009 Add obst 2013'MSL (2000'AGL)UC, 29°18'01"N, 95°06'40"W.

17 Dec 2009 No Major Changes.

### AIRPORTS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

22 Oct 2009 - 17 Dec 2009 No Major Changes.

# **AIRSPACE**

22 Oct 2009 - 17 Dec 2009 No Major Changes.

### SPECIAL USE AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

### MILITARY TRAINING ROUTES

22 Oct 2009 - 17 Dec 2009 No Major Changes.

### MISCELLANEOUS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

# IFR GULF OF MEXICO CENTRAL 1st Edition, 17 Dec 2009

**OBSTRUCTIONS** 

17 Dec 2009 No Major Changes.

AIRPORTS

17 Dec 2009 No Major Changes.

**NAVAIDs** 

17 Dec 2009 No Major Changes.

**AIRSPACE** 

17 Dec 2009 No Major Changes.

**SPECIAL USE AIRSPACE** 

17 Dec 2009 No Major Changes.

**MILITARY TRAINING ROUTES** 

17 Dec 2009 No Major Changes.

**MISCELLANEOUS** 

17 Dec 2009 No Major Changes.

# IFR GULF OF MEXICO WEST 1st Edition, 17 Dec 2009

**OBSTRUCTIONS** 

17 Dec 2009 No Major Changes.

**AIRPORTS** 

17 Dec 2009 No Major Changes.

NAVAIDS

17 Dec 2009 No Major Changes.

**AIRSPACE** 

17 Dec 2009 No Major Changes.

**SPECIAL USE AIRSPACE** 

17 Dec 2009 No Major Changes.

**MILITARY TRAINING ROUTES** 

17 Dec 2009 No Major Changes.

**MISCELLANEOUS** 

17 Dec 2009 No Major Changes.

# KANSAS CITY SECTIONAL 83rd Edition, 19 Nov 2009

### **OBSTRUCTIONS**

17 Dec 2009 Add obst 1174'MSL (305'AGL)UC, 36°05'01"N, 96°35'42"W. Change to group obst 1178'MSL (335'AGL)UC, 37°01'30"N, 94°45'08"W. Add obst 1460'MSL (280'AGL), 36°32'20"N, 93°34'31"W. Add obst 1624'MSL (339'AGL)UC, 36°02'15"N, 93°35'05"W. Add obst 1591'MSL (315'AGL)UC, 36°02'15"N, 93°34'44"W. Add obst 1230'MSL (320'AGL)UC, 40°11'57"N, 95°02'00"W.

### **AIRPORTS**

17 Dec 2009 Delete TERAMIRANDA arpt. 36°36′30″N. 94°52′21″W.

### NAVAIDS

17 Dec 2009 No Major Changes.

### AIRSPACE

17 Dec 2009 Revise TOPEKA, KS Class D: That airspace extending upward from the surface to and including 3,600 feet MSL within a 4.9-mile radius of Forbes Field Airport, and within 2.2 miles each side of the RIPLY LOM 317° bearing extending from the 4.9-mile radius to 5.3 miles northwest of the airport and within 1.8 miles each side of the Forbes Field Airport ILS Localizer southeast course extending from the 4.9-mile radius to 0.9 miles southeast of the RIPLY LOM. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective dates and times will thereafter be continuously published in the Airport/Facility Directory.

Revise TOPEKA, KS Class E: That airspace within a 4.9-mile radius of Forbes Field Airport, and within 2.2 miles each side of the RIPLY LOM 317° bearing extending from the 4.9-mile radius to 5.3 miles northwest of the airport and within 1.8 miles each side of the Forbes Field Airport ILS Localizer southeast course extending from the 4.9-mile radius to 0.9 miles southeast of the RIPLY LOM. That airspace extending upward from 700 feet above the surface within a 7.4-mile radius of Forbes Field Airport, and within 3.1 miles each side of the Forbes Field Airport ILS localizer course extending from the 7.4-mile radius to 13 miles southeast of the airport, and within 3.5 miles each side of the Forbes Field Airport ILS localizer course extending from the 7.4-mile radius to 13 miles northwest of the airport.

Revise ST. LOUIS, MO Class E: that airspace extending upward from 700 feet above the surface within a 7.1-mile radius of Lambert-St. Louis International Airport, and within 4 miles southeast and 7 miles northwest of the Lambert-St. Louis International Airport Runway 24 ILS localizer course extending from the airport to 10.5 miles northeast of the ZUMAY LOM, and within 4 miles southwest and 7.9 miles northeast of the Lambert-St. Louis International Airport Runway 12R ILS localizer course extending from the airport to 10.5 miles northwest of the OBLIO LOM, and within 4 miles southwest and 7.9 miles northeast of the Lambert-St. Louis International Airport Runway 30L ILS localizer course extending from the airport to 8.7 miles southeast of the airport, and within a 6.8-mile radius of Spirit of St. Louis Airport, and within 3.9 miles each side of the 258° bearing from Spirit of St. Louis Airport extending from the 6.8-mile radius of Spirit of St. Louis Airport to 10.6 miles west of the airport, and within 2.6 miles each side of the 098° radial of the Foristell VORTAC extending from the 6.8-mile radius of Spirit of St. Louis Airport, and within a 6.9-mile radius of St. Louis Regional Airport, and within a 6.9-mile radius of St. Louis Regional Airport, and within 4 miles each side of the 014° bearing from the Civic Memorial NDB extending from the 6.9-mile radius of St. Louis Regional Airport, and within 4 miles outh of the VORTAC.

### SPECIAL USE AIRSPACE 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES
17 Dec 2009 No Major Changes.

### **MISCELLANEOUS**

17 Dec 2009 No Major Changes.

# MEMPHIS SECTIONAL 83rd Edition, 24 Sep 2009

### OBSTRUCTIONS

**22 Oct 2009** Add obst 505'MSL (328'AGL), 34°21'56"N, 90°38'14"W. Add obst 798'MSL (420'AGL)UC, 32°05'24"N, 90°39'59"W. Add obst 979'MSL (499'AGL)UC, 34°13'53"N, 93°16'47"W.

Add obst 495'MSL (330'AGL)UC, 33°39'16"N, 92°40'34"W.

Add obst 945'MSL (645'AGL)UC, 33°38'59"N, 93°48'43"W.

**17 Dec 2009** Add obst 779 MSL (311'AGL)UC, 32°52'06"N, 89°10'13"W. Add obst 558'MSL (311'AGL)UC, 32°45'06"N, 90°08'26"W.

Add obst 1465'MSL (304'AGL)UC, 36°05'39"N, 93°07'56"W.

Add obst 711'MSL (305'AGL)UC, 35°12'53"N, 92°27'30"W. Add obst 820'MSL (311'AGL)UC, 32°58'38"N, 89°22'06"W. Add obst 852'MSL (499'AGL)UC, 32°08'05"N, 90°03'41"W.

Add obst 826'MSL (256'AGL)UC, 32°54'53"N, 89°15'18"W. Add obst 788'MSL (260'AGL)UC, 35°28'15"N, 88°31'00"W.

Change obst from 693'MSL (331'AGL)to 753'MSL (391'AGL), 32°28'00"N, 94°23'59"W.

Add obst 1624'MSL (339'AGL)UC, 36°02'15"N, 93°55'05"W. Add obst 724'MSL (475'AGL)UC, 35°39'50"N, 89°56'44"W.

## **AIRPORTS**

22 Oct 2009 Add RP 35 to TUNICA MUNI arpt, 34°41'06"N, 90°20'52"W.

17 Dec 2009 FULTON ITAWAMBA CO arpt abandoned, 34°21'07"N, 88°22'38"W.

Delete abandoned arpt symbol, 33°54'17"N, 94°50'43"W.

Delete abandoned arpt symbol, 33°07′46″N, 94°58′32″W.

### NAVAIDs

22 Oct 2009 Shutdown PINHOOK NDB. 35°15′14"N. 88°12′15"W.

Change bearing 294° to 293° from HAMILTON VORTAC(HAB) 34°11′42″N, 88°00′45″W.

17 Dec 2009 Shutdown CLARKSDALE NDB, 34°17'35"N, 90°30'56"W.

### **AIRSPACE**

22 Oct 2009 - 17 Dec 2009 No Major Changes.

### SPECIAL USE AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

## MILITARY TRAINING ROUTES

22 Oct 2009 - 17 Dec 2009 No Major Changes.

22 Oct 2009 Change MEF 1º to 1¹ in quadrant 33°30′00″-34°00′00″N, 93°30′00″-94°00′00″W.

17 Dec 2009 No Major Changes.

# MEMPHIS TERMINAL AREA CHART 41st Edition, 24 Sep 2009

### **OBSTRUCTIONS**

22 Oct 2009 No Major Changes.

17 Dec 2009 Add obst 724'MSL (475'AGL)UC, 35°39'50"N, 89°56'44"W.

22 Oct 2009 Add RP 35 to TUNICA MUNI arpt, 34°41′06″N, 90°20′52″W.

17 Dec 2009 No Major Changes.

22 Oct 2009 - 17 Dec 2009 No Major Changes.

22 Oct 2009 - 17 Dec 2009 No Major Changes.

### SPECIAL USE AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

### MILITARY TRAINING ROUTES

22 Oct 2009 - 17 Dec 2009 No Major Changes.

### MISCELL ANEOUS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

# NEW ORLEANS SECTIONAL 85th Edition, 19 Nov 2009

### **OBSTRUCTIONS**

17 Dec 2009 Add obst 250' MSL (231' AGL), 30°26'08"N, 90°38'21"W. Add obst 852' MSL (499' AGL), 32°08'05"N, 90°03'41"W. Change obst from 544' MSL (310' AGL) to 644' MSL (410' AGL), 31°52'32"N, 90°10'15"W. Add obst 651' MSL (470' AGL), 31°44'31"N, 88°32'22"W.

### **AIRPORTS**

17 Dec 2009 Delete WOLF RIVER ARPT, 30°54′52″N, 89°26′40″W.

### NAVAID

17 Dec 2009 No Major Changes.

### 17 Dec

AIRSPACE 17 Dec 2009 No Major Changes.

### **SPECIAL USE AIRSPACE**

17 Dec 2009 No Major Changes.

### MILITARY TRAINING ROUTES

17 Dec 2009 No Major Changes.

# **MISCELLANEOUS**

17 Dec 2009 No Major Changes.

# NEW ORLEANS TERMINAL AREA CHART 70th Edition, 19 Nov 2009

## **OBSTRUCTIONS**

17 Dec 2009 Add obst 250' MSL (231' AGL), 30°26'08"N, 90°38'21"W.

## **AIRPORTS**

17 Dec 2009 No Major Changes.

### NAVAID:

17 Dec 2009 No Major Changes.

### **AIRSPACE**

17 Dec 2009 No Major Changes.

## SPECIAL USE AIRSPACE

17 Dec 2009 No Major Changes.

### **MILITARY TRAINING ROUTES**

17 Dec 2009 No Major Changes.

### **MISCELLANEOUS**

17 Dec 2009 No Major Changes.

# ST. LOUIS SECTIONAL 81st Edition, 17 Dec 2009

### **OBSTRUCTIONS**

17 Dec 2009 No Major Changes.

### **AIRPORTS**

17 Dec 2009 No Major Changes.

### **NAVAIDS**

17 Dec 2009 No Major Changes.

### **AIRSPACE**

17 Dec 2009 No Major Changes.

### **SPECIAL USE AIRSPACE**

17 Dec 2009 No Major Changes.

### MILITARY TRAINING ROUTES

17 Dec 2009 No Major Changes.

### **MISCELLANEOUS**

17 Dec 2009 No Major Changes.

# SAN ANTONIO SECTIONAL 84th Edition, 19 Nov 2009

### **OBSTRUCTIONS**

17 Dec 2009 Add obst 916'MSL (485'AGL)UC, 29°25'02"N, 97°42'11"W. Add obst 680'MSL (309'AGL)UC, 30°49'50"N, 96°32'02"W. Add obst 800'MSL (279'AGL)UC, 31°25'52"N, 96°29'45"W.

### **AIRPORTS**

17 Dec 2009 No Major Changes.

### **NAVAIDs**

17 Dec 2009 Change name and ident of LAMPASAS (LZZ) VORTAC to GOOCH SPRINGS (AGJ), 31°11'08"N, 98°08'31"W. Raise all outbound bearings from LAMPASAS VORTAC by 3 degrees, 31°11'08"N, 98°08'31"W.

# AIRSPACE

17 Dec 2009 No Major Changes.

## **SPECIAL USE AIRSPACE**

17 Dec 2009 No Major Changes.

### **MILITARY TRAINING ROUTES**

17 Dec 2009 No Major Changes.

### **MISCELLANEOUS**

17 Dec 2009 No Major Changes.

# AERONAUTICAL CHART BULLETIN WICHITA SECTIONAL 83rd Edition. 39 Jul 2009

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OBSTRUCTIONS
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**27 Aug 2009** Add obst 2930'MSL (350'AGL)UC, 39°50'12"N, 100°10'48"W. Add obst 1665'MSL (310'AGL)UC, 37°57'55"N, 97°09'08"W. Add obst 2636'MSL (350'AGL)UC, 39°49'30"N, 99°35'27"W 22 Oct 2009 Add obst 1641'MSL (238'AGL), 37°59'00"N, 96°52'21"W. Add obst 1782'MSL (260'AGL), 37°56'06"N, 97°51'53"W. Add obst 1604'MSL (314'AGL), 37°30'30"N, 97°11'19"W. Add obst 2978'MSL (350'AGL)UC, 36°19'02"N, 100°15'34"W. Add obst 3298'MSL (315'AGL)UC, 38°55'12"N, 101°11'02"W. Add obst 1588'MSL (320'AGL)UC, 37'29'57"N, 97'30'51"W. 17 Dec 2009 Add obst 4645'MSL (350'AGL)UC, 38°49'03"N, 102°22'02"W. Add obst 4549'MSL (350'AGL)UC, 39°03'34"N, 102°15'35"W. Add obst 5259'MSL (350'AGL)UC, 37°22'54"N, 102°54'22"W. Add obst 4300'MSL (350'AGL)UC, 37°22'52"N, 102°17'06"W. Add obst 1620'MSL (310'AGL), 39°40'47"N, 96°45'01"W. Add obst 1737'MSL (260'AGL), 37°53'35"N, 97°46'18"W. Add obst 1947'MSL (310'AGL), 38°40'41"N, 97°58'53"W. Add obst 1694'MSL (349'AGL)UC, 36°24'21"N, 98°21'05"W. Add obst 2684'MSL (415'AGL)UC, 36°20'21"N, 99°32'08"W. Add obst 2406'MSL (315'AGL)UC, 37°57'52"N, 99°06'48"W. Add obst 3840'MSL (262'AGL)UC, 37°52'52"N, 102°00'15"W. Add obst 3715'MSL (350'AGL)UC, 39°46'58"N, 101°22'34"W. Add obst 1512'MSL (349'AGL)UC, 36°52'05"N, 97°36'27"W.

### **AIRPORTS**

27 Aug 2009 No Major Changes. 22 Oct 2009 Change CTAF/UNICOM freq to 123.075 at STEARMAN arpt, 37°46'30"N, 97°06'47"W. 17 Dec 2009 No Major Changes.

27 Aug 2009 - 17 Dec 2009 No Major Changes.

Add obst 2553'MSL (320'AGL)UC, 40°08'35"N, 99°49'29"W.

27 Aug 2009 - 17 Dec 2009 No Major Changes.

### SPECIAL USE AIRSPACE

27 Aug 2009 - 17 Dec 2009 No Major Changes.

### MILITARY TRAINING ROUTES 27 Aug 2009 IR-526 Revised

IR-513 Revised

IR-504 Revised

22 Oct 2009 - 17 Dec 2009 No Major Changes

27 Aug 2009 - 17 Dec 2009 No Major Changes.

## SUPPLEMENTAL COMMUNICATION REFERENCE

Contained within this tabulation, and listed alphabetically by airport name, are all private—use airports charted on the U.S. IFR Enroute Low and High Altitude charts in the United States, having terminal approach and departure control facilities. Additionally, listed by country, are all Canadian and Mexican airports that appear on the U.S. IFR Enroute charts with approach and departure control services. All frequencies transmit and receive unless otherwise noted. Radials defining sectors are outbound from the facility.

### UNITED STATES

ACILITY NAME	UNITED STATES	CHART & PANEL
Frankfort, IL (LL4Ø)		L-28H
Chicago App/Dep Con 133.1 28	5.6	
Glasgow Industrial, MT (Ø7MT)		H-1E, 2F, L-13D
Salt Lake Center App/Dep Con 1	26.85 305.2	
USAF Academy Bullseye Aux Airstrip, CO (C		L-10F
ASOS 118.325		
West Kentucky Airpark, KY (5KY3)		L-16I
Memphis Center App/Dep Con 1	33.65 292.15	
William P Gwinn, FL (Ø6FA)		H-8I, L-23C
Gwinn Tower 120.4 279.25 (Mor	n-Fri 1300-21007†)	5., 2 255
Gnd Con 121.65 279.25	· · · · 1000 210024)	
did 00ii 121i00 210i20	CANADA	
CILITY NAME	CANADA	CHART & PANEL
Abbotsford, BC (CYXX)		H-1B, L-12F
ATIS 119.8 (1500–0700Z‡)		11 15, 1 121
Victoria Trml App/Dep Con 132.	7 (Avhl on ground) 290 8	
	r) 295.0 (1500–0700Z‡) Gnd Con 121.8	
MF 119.4 295.0 (0700–1500Z‡		
Amos/Magny, QC (CYEY)	( Chape megalar to 4000 )	H-11B
Montreal Center App/Dep Con 1:	25.9	II-TID
Atikokan Muni, ON (CYIB)	20.9	L-14I
	und station)	L-141
MF 122.3 (5 NM to 4500' No gro Barrie-Orillia (Lake Simcoe Rgnl), ON (CY	·	H-11B, L-31D
	LS)	H-11B, L-31D
AWOS 122.55 (Pvt)	4.005	
Toronto Center App/Dep Con 12	4.025	1 242
Bar River, ON (CPF2)	2.05	L-31C
Toronto Center App/Dep Con 13:	2.65	
Bathurst, NB (CZBF)		L-32J
Moncton Center App/Dep Con 13	34.25	
Boundary Bay, BC (CZBB)		H-1B, L-1E
ATIS 125.5 (1500-0700Z‡)		
Vancouver App/Dep Con 132.3 3		
	r) (1500-0700Z‡) Gnd Con 124.3	
	0'. Vancouver Trml 125.2 above 2000'. Shape	
irregular to 2500'.)		
Brampton, ON (CNC3)		L-31D
Toronto Trml App/Dep Con 119.3	3 253.1	
Brandon Muni, MB (CYBR)		H-2H
Winnipeg Center App/Dep Con 1	32.25 285.4	
MF 122.1 (5 NM to 4000')		
Brantford, ON (CYFD)		L-31D
Toronto Trml App/Dep Con 128.2	27	
Brockville-Thousand Islands Rgnl Tackabe	rry, ON (CNL3)	L-32G
Montreal Center App/Dep Con 13	34.675	
Bromont, QC (CZBM)		L-32G
Montreal Center App/Dep Con 13	32.35 MF 122.15 (5 NM to 3400')	
Burlington Airpark, ON (CZBA)		L-31D
Toronto Center App/Dep Con 11	9.3 253.1	
Castlegar, BC (CYCG)		H-1C
Vancouver Center App/Dep Con	134.2 227.3	10
MF 122.1 (5 NM to 6500')		
Centralia/James T. Fld Muni, ON (CYCE)		H-10G, 11B, L-31D
Toronto Center App/Dep Con 13	5 30	11-100, 110, L=310
Charlottetown, PE (CYYG)	5.00	H-11E, L-32J
	25 65 294 9 ME 119 0 (5 NM +2 2200/)	11-11L, L-32J
	35.65 384.8 MF 118.0 (5 NM to 3200')	H-10G, L-30G
Chatham-Kent, ON (CNZ3)	22.25	n-10G, L-30G
Cleveland Center App/Dep Con 1	.32.23	

CILITY NAME	CHART & PANEL
Collingwood, ON (CNY3)	H-11B, L-31D
Toronto Center App/Dep Con 124.02	
Cornwall Rgnl, ON (CYCC)  Boston Center App/Dep Con 135.25 377.1	L-32G
Cranbrook/Canadian Rockies Intl, BC (CYXC)	H-1C
Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100')	10
Debert, NS (CCQ3)	H-11E, L-32J
Halifax Trml App/Dep Con 119.2	
Digby, NS (CYID)	L-32J
Moncton Center App/Dep Con 123.9	
Downsview, ON (CYZD)	H-11B, L-31E
Toronto Center App Con 133.4	
Toronto Center Dep Con 133.4	
MF 126.2 (1300–2300Z‡, 3 NM to 1700′)	
Drummondville, QC (CSC3)  Mantreal Center App /Dep Cent 133, 35	L-32H
Montreal Center App/Dep Con 132.35	H-11B
Earlton (Timiskaming Rgnl), ON (CYXR)  MF 122.0 (5 NM to 3800')	U-TIP
AWOS 128.6	
Elliot Lake Muni, ON (CYEL)	L-31C
Toronto Center App/Dep Con 135.4	2 010
Fort Frances Muni, ON (CYAG)	L-14H
Minneapolis Center App/Dep Con 120.9	
redericton Intl, NB (CYFC)	H-11E, L-32I
ATIS 127.55	
Moncton Center App/Dep Con 124.3 135.5 270.8	
Tower 119.0 (1200-2000Z, DT 1100-1900Z) Gnd Con 121.7 (Ltd hrs)	
MF 119.0 (2000–1200Z, DT 1900–1100Z 5 NM to 3500')	
Goderich, ON (CYGD)	H-11B, L-31D
Toronto Center App/Dep 135.3 266.3	
Greenwood, NS (CYZX)	H-11E, L-32J
ATIS 128.85 244.3 (1100-0000Z‡)	
App/Dep Con 120.6 335.9 Tower 119.5 126.2 236.6 324.3	
Grid Con 133.75 289.4 Clnc Del 128.05 283.9	1 245
Grimsby Air Park, ON (CNZ8)	L-31E
Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475  Halifax/Shearwater, NS (CYAW)	H-11E, L-32J
ATIS 129.175 (Ltd hrs)	11-111, 1-32)
App/Dep Con 119.2 Tower 119.0 126.2 340.2 360.2 (Ltd hrs)	
Gnd Con 121.7 250.1	
Halifax/Stanfield Intl, NS (CYHZ)	H-11E, L-32J
ATIS 121.0	,
Moncton Center App/Dep Con 118.7 119.2 128.55 135.3 225.2 363.8	
Tower 118.4 236.6 Gnd Con 121.9 275.8 Clnc Del 123.95	
Apron Advisory 122.125	
Hamilton, ON (CYHM)	H-10H, 11B, L-11B
ATIS 128.1	
Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0	
Gnd Con 121.6	
Kingston, ON (CYGK)	H-11C, L-31E, 32F
Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡)	
MF 122.5 (1115–0400Z‡ 5 NM to 3300′)	
Kitchener/Waterloo, ON (CYKF)	H-11B, L-31D
ATIS 125.1 (1200–0400Z‡)	
Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200–0400Z‡) Gnd Con 121.8	
MF 126.0 (0400–1200Z‡ 5 NM to 4000′)	
Lachute, QC (CSE4)	L-32G
Montreal Center App Con 124.65 132.85 268.3	L=324
Montreal Center Dep Con 132.85 268.3	
	H-11C
	11-110
La Tuque, QC (CYLQ)	
La Tuque, QC (CYLQ) Montreal Center App/Dep Con 134.5	
La Tuque, QC (CYLQ)  Montreal Center App/Dep Con 134.5  Langley, BC (CYNJ)	L-1E
La Tuque, QC (CYLQ) Montreal Center App/Dep Con 134.5	

:ILITY NAME .eamington, ON (CLM2)	CHART & PANI L-30
Cleveland Center App/Dep Con 132.45	
ethbridge, AB (CYQL)	H-1
ATIS 124.4 (1300-0545Z‡)	
Edmonton Center App/Dep Con 132.75 265.2 MF 121.0 (5 NM to 6000')	
indsay, ON (CNF4)	L-31E, L-32
Toronto Center App/Dep 134.25	1.20
iverpool/South Shore Rgnl, NS (CYAU)  Moncton Center App/Dep Con 123.9	L-32
ondon, ON (CYXU)	H-10G, 11I
ATIS 127.8 (1120–0345Z‡)	L-30G, 31
Toronto Center App/Dep 135.3 135.625	,
Tower 119.4 125.65 (1120-0345Z‡) Gnd Con 121.9	
MF 119.4 (0345-1120Z‡ 5 NM to 3000')	
Manitowaning/Manitoulin East Muni, ON (CYEM)	L-31
Toronto Center App/Dep 135.4 260.9	
Maniwaki, QC (CYMW)	L-32
Montreal Center App/Dep Con 126.57	
Mascouche, QC (CSK3)	L-32
MF 122.35 (5 NM to 2500'. No gnd station. Excluding the portion S of the	
N shore of Riviere des Milles-lles and 1 NM around Lac Agile Mascouche arpt.)  Medicine Hat, AB (CYXH)	H-1
AWOS 124.875 (0345–1245Z‡)	11-2
MF 122.2 (1245–0345Z‡ 5 NM to 5400')	
Midland/Huronia, ON (CYEE)	L-31
Toronto Center App/Dep 124.025	
Miramichi, NB (CYCH)	H-11E, L-3
Moncton Center App/Dep Con 123.7	
Moncton/Greater Moncton Intl, NB (CYQM)	H-11E, L-3
ATIS 128.65	
App/Dep 124.4 Tower 120.8 236.6 Gnd Con 121.8 275.8	
Apron Advisory 122.075	
Mont-Laurier, QC (CSD4)	L-32
Montreal Center App/Dep Con 126.57	11 110 101 1 20
Montreal Inti (Mirabel), QC (CYMX)  ATIS 125.7	H-11C, 12K, L-32
Montreal Center App Con 124.65 132.85 268.3	
Montreal Dep Con 132.85	
MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15	
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL)	H-11C, 12K, L-32
ATIS 133.7	
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3	
Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075	
Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE)	
VFR Advisory 134.15	
Montreal/St-Hubert, QC (CYHU)	H-11C, L-32
ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9	
Montreal Center App/Dep Con 125.15 268.3	
St. Hubert Tower 118.4 (Apr-Oct 1045–0500Z‡, Nov-Mar 1045–0400Z)  Gnd Con 126.4 MF 118.4 (Apr-Oct 0500–1045Z‡, Nov-Mar	
0400–1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15	
Muskoka, ON (CYOA)	H-11B, L-31
AWOS 124.575	115, 2 0
MF 122.3 (5 NM to 3900')	
Manaimo, BC (CYCD)	H-1B, L-:
Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500')	
	H-11B, L31
North Bay, ON (CYYB)	
lorth Bay, ON (CYYB) ATIS 124.9 (1130-0300Z‡)	
lorth Bay, ON (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25	
lorth Bay, ON (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000')	
Orth Bay, ON (CYYB)  ATIS 124.9 (1130-0300Z‡)  Toronto Center App/Dep 121.225 127.25  MF 118.3 (1130-0330Z‡ 7 NM to 5000')  Oshawa, ON (CYOO)	L-3:
Horth Bay, ON (CYYB)  ATIS 124.9 (1130-0300Z‡)  Toronto Center App/Dep 121.225 127.25  MF 118.3 (1130-0330Z‡ 7 NM to 5000′)  Shawa, ON (CYOO)  ATIS 125.675 (1130-0330Z‡)	L-31
Orth Bay, ON (CYYB)  ATIS 124.9 (1130-0300Z‡)  Toronto Center App/Dep 121.225 127.25  MF 118.3 (1130-0330Z‡ 7 NM to 5000')  Oshawa, ON (CYOO)	L-31

CILITY NAME	CHART & PANE
Ottawa/Carp, ON (CYRP)	L-31E, 32I
ATIS 121.15	
Ottawa Trml App/Dep Con 128.175 252.5	
Ottawa/Gatineau, QC (CYND)	H-11C, L-320
Ottawa Trml App/Dep Con 127.7 128.175 252.5	
MF 122.3 (5 NM shape irregular to 2500')	
VFR Advisory Ottawa Trml 127.7	
Ottawa/MacDonald-Cartier Intl, ON (CYOW)	L-110
ATIS 121.15	
Ottawa App Con 135.15 Tower 118.8 120.1 341.3	
Gnd Con 121.9 Clnc Del 119.4	
Ottawa Dep Con 128.175	
Owen Sound/Billy Bishop Rgnl, ON (CYOS)	L-31[
Toronto Center App/Dep 132.575 290.6	
Pelee Island, ON (CYPT)	L-30
Cleveland Center App/Dep Con 126.35 360.0	
Pembroke, ON (CYTA)	H-11C, L-31E, 32I
Montreal Center App/Dep Con 135.2	
Petawawa Advisory 126.4 250.1 (Mon–Fri 1300–2130Z‡, OT PPR)	
Penticton, BC (CYYF)	H-1I
Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100')	
Peterborough, ON (CYPQ)	H-11B, L-31E, 32
AWOS 126.925	
Toronto Center App/Dep 134.25	
Pincher Creek, AB (CZPC)	H-1
Edmonton Center App/Dep Con 132.75 265.2	
Pitt Meadows, BC (CYPK)	L-1
ATIS 125.0 (1500-0700Z‡)	
Vancouver Center App Con 128.6 352.7 (Outer)	
Pitt Tower 126.3 (1500–0700Z‡) Gnd Con 123.8	
Vancouver Center Dep Con 132.3 363.8 (South)	
MF 126.3 (0700–1500Z‡) (3NM to 2500′)	
Quebec/Jean Lesage Intl, QC (CYQB)	H-11D, L-32
ATIS 134.6	
Montreal Center App/Dep Con 124.0 127.85 135.025 270.9 322.8	
(185.65 Quebec Twr VFR acft at or below 3000') Tower 118.65 236.6	
Gnd Con 121.9 250.0	
Riviere Du Loup, QC (CYRI)	H-11
AWOS 122.025 (Pvt)	
Montreal Center App/Dep Con 125.1 299.6	
Rouyn Noranda, QC (CYUY)	H-11
Montreal Center App/Dep Con 125.9	
MF 122.2 (5 NM to 4000')	
Saint John, NB (CYSJ)	H-11E, L-32
Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400')	
Sarnia (Chris Hadfield), ON (CYZR)	H-10G, 11B, L-30
Toronto Center 134.375	
Sault Ste Marie, ON (CYAM)	H-2K, L-31
ATIS 133.05 (1300-0100Z‡)	
Toronto Center App/Dep Con 132.65 344.5	
Tower 118.8 (1300–0100Z‡) Gnd Con 121.7	
MF 118.8 (0100-1300Z‡ 5 NM irregular shape to 3000')	
Sherbrooke, QC (CYAM)	H-11D, L-32
AWOS 126.25	
Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800')	
South Renfrew Muni, ON (CNP3)	L-31E, 32
Montreal Center App/Dep 124.275	
Southport, MB (CYPG)	H-2l
ATIS 120.85 (Mon-Fri 1400-2300Z‡ except holidays)	
Tower 126.2 384.2 (Mon-Fri 1400-2300Z‡ except holidays)	

CILITY NAME Springwater Barrie Airpark, ON (CNA3)	CHART & PANEL
	L-31L
Toronto Center App/Dep Con 124.025 St. Catherines/Niagara District, ON (CYSN)	H-10H, 11B, L-31E
ATIS 128.525 (1215–0200Z‡)	11-1011, 110, 1-011
Toronto Trml App/Dep Con 133.4 253.1	
MF 123.25 (1215–0200Z‡ 5 NM to 3300′)	
St. Frederic, QC (CSZ4)	L-32H
Montreal Center App/Dep Con 135.025 270.9	
St. Georges, QC (CYSG)	H-32H, L-11[
Montreal Center App/Dep Con 132.35	
MF 122.15 (5 NM 3900' ASL)	
St. Jean, QC (CYJN)	L-320
Montreal Center App/Dep Con 125.15 268.3	
Tower 118.2 (Apr-Oct 1230-0230Z‡ Nov-Mar 1300-0200Z‡)	
Gnd Con 121.7	
Sudbury, ON (CYSB)	H-31B, 10G, L-31D
ATIS 127.4	
Toronto Center App/Dep Con 135.5	
MF 125.5 (7 NM to 4000')	
Summerside, PE (CYSU)	H-11E, L-32.
AWOS 122.55 (Pvt)	
Moncton Center App/Dep Con 124.4 384.8	
hunder Bay, ON (CYQT)	H-2J, L-14.
ATIS 128.8 (1100-0400Z‡)	
Winnipeg Center App/Dep Con 132.125 (0400–1100Z‡)	
Tower 118.1 (1100–0400Z‡) Gnd Con 121.9	
App/Dep 119.2 MF 118.1 (0400–1100Z‡ 5 NM to 4000′)	
Timmins, ON (CYTS)	H-11E
ATIS 124.95 (1000–0500Z‡)	
Toronto Center App/Dep Con 128.3 226.3 MF 122.3 (5 NM to 4000')	L-31E
Foronto/Buttonville Muni, ON (CYKZ)	L-311
ATIS 127.1 (1200–0400Z‡) Toronto Center App Con 133.4 Toronto Center Dep Con 133.4	
Tower 124.8 119.9 (1200–0400Z‡) Gnd Con 121.8	
MF 124.8 (0400–1200Z‡ No gnd station. 5 NM shape irregular to below 2500')	
foronto/City Centre, ON (CYTZ)	L-318
ATIS 133.6 (1130–0400Z‡)	2 011
App Con 133.4 Dep Con 133.4	
Tower 118.2 119.2 (1130–0400Z‡) Gnd Con 121.7	
Foronto/Lester B Pearson Intl, ON (CYYZ)	H-11B, L-310
ATIS 120.825	115, 2 315
App Con 124.475 125.4 132.8 Dep Con 127.575 128.8	
Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9	
Clnc Del 121.3 (1200–0400Z‡) VFR Advisory 119.3 133.4	
Trenton, ON (CYTR)	H-11C, L-31E, 32
ATIS 135.45 257.7	
App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8	
Cinc Del 124.35 286.4	
Trenton/Mountain View, ON (CPZ3)	H-11C, L-31E, 32I
Trenton Mil Advisory 268.0	
Trois-Rivieres, QC (CYRQ)	H-11C, L-32F
Montreal Center App/Dep Con 128.225 229.2	
MF 123.0 (5 NM to 3200')	
'al-D'or, QC (CYVO)	H-11E
Montreal Center App/Dep Con 125.9 308.3	
MF 118.5 (1030-0325Z‡ 5 NM to 4000')	
ancouver Intl, BC (CYVR)	H-1B, L-1I
ATIS 124.6 124.75	
App Con 128.6 128.17 352.7 (Outer) 133.1 134.225 352.7 (Inner)	
Dep Con 126.125 (north) 132.3 (south) 363.8	
Tower 118.7 (south) 119.55 (north) VFR 124.0 125.65 226.5 236.6	
Gnd Con 121.7 (south) 127.15 (north) 275.8 Clnc Del 121.4	

Victoria Intl, BC (CYYJ)	CHART & PANEL
	H-1B, L-1E
ATIS 118.8 (1400-0800Z‡)	
App Con 125.95 308.4 Dep Con 133.85 308.4	
Tower 119.1 (Outer) 119.7 (Inner) 239.6	
Gnd Con 121.9 361.4 (1400-0800Z‡ OT ctc Kamloops 119.7)	
Cinc Del 126.4 (1400-0800Z‡)	
/ictoriaville, QC (CSR3)	L-32H
Montreal Center App Con 132.35	
Waterville/Kings Co Muni, NS (CCW3)	L-32J
Greenwood Trml App/Dep Con 120.6 335.9	
Greenwood Tower 119.5 324.3	
Wiarton, ON (CYVV)	H-11B, L-31D
Toronto Center App/Dep Con 132.575	
MF 122.2 (5 NM to 3700')	
Windsor, ON (CYQG)	H-10G, L-8J
ATIS 134.5 (1130-0330Z‡)	
Detroit App/Dep Con 126.85 127.5 134.3 348.3 363.2	
Tower 124.7 (1130-0330Z‡) Gnd Con 121.7	
MF 124.7 (0330-1130Z‡ 6 NM irregular shape to below 3000')	
VFR Advisory Detroit App Con 134.3	
Yarmouth, NS (CYQI)	H-11E, L-32
Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100')	
MEXICO	
CILITY NAME	CHART & PANEL
Abraham Gonzalez Intl (MMCS)	H-4K, L-6F
Juarez App Con 119.9 Juarez Tower 118.9	
Del Norte Intl (MMAN)	H-7B, L-200
ATIS 127.55 (1300-0300Z‡)	
Monterrey App 119.75 120.4 Tower 118.6	
Durango Intl (MMDO)	H-7A
ATIS 132.1	
Tower 118.1 Durango Info 122.3	
General Abelardo L Rodriguez Intl (MMTJ)	H-4H, L-4H
ATIS 127.9	
Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Clnc Del 122.35	
Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Clnc Del 122.35 Tijuana Info 132.1	
	H–7B, L–20H
Tijuana Info 132.1	H-7B, L-20H
Tijuana Info 132.1 General Lucio Blanco Intl (MMRX) Reynosa App Con 118.8 Reynosa Tower 118.8	·
Tijuana Info 132.1 General Lucio Blanco Intl (MMRX) Reynosa App Con 118.8 Reynosa Tower 118.8	
Tijuana Info 132.1  General Lucio Blanco Intl (MMRX)  Reynosa App Con 118.8 Reynosa Tower 118.8  General Mariano Escobedo Intl (MMMY)	
Tijuana Info 132.1  General Lucio Blanco Intl (MMRX)  Reynosa App Con 118.8 Reynosa Tower 118.8  General Mariano Escobedo Intl (MMMY)  ATIS 127.7	H–7B, L–20G
Tijuana Info 132.1  General Lucio Blanco Intl (MMRX) Reynosa App Con 118.8 Reynosa Tower 118.8  General Mariano Escobedo Intl (MMMY) ATIS 127.7  Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9	H–7B, L–20G
Tijuana Info 132.1  General Lucio Blanco Intl (MMRX) Reynosa App Con 118.8 Reynosa Tower 118.8  General Mariano Escobedo Intl (MMMY) ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9  General R Fierro Villalobos Intl (MMCU) ATIS 127.9	H–7B, L–20G
Tijuana Info 132.1  General Lucio Blanco Intl (MMRX)  Reynosa App Con 118.8 Reynosa Tower 118.8  General Mariano Escobedo Intl (MMMY)  ATIS 127.7  Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9  General R Fierro Villalobos Intl (MMCU)  ATIS 127.9  Chihuahua App Con 121.0 Chihuahua Tower 118.4	H–7B, L–20G L–6l
Tijuana Info 132.1  General Lucio Blanco Intl (MMRX)  Reynosa App Con 118.8 Reynosa Tower 118.8  General Mariano Escobedo Intl (MMMY)  ATIS 127.7  Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9  General R Fierro Villalobos Intl (MMCU)  ATIS 127.9  Chihuahua App Con 121.0 Chihuahua Tower 118.4  General Rodolfo Sanchez Taboada Intl (MMML)	H–7B, L–20G L–6l
Tijuana Info 132.1  General Lucio Blanco Intl (MMRX) Reynosa App Con 118.8 Reynosa Tower 118.8  General Mariano Escobedo Intl (MMMY) ATIS 127.7  Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9  General R Fierro Villalobos Intl (MMCU) ATIS 127.9  Chihuahua App Con 121.0 Chihuahua Tower 118.4  General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6	H–7B, L–20G L–6l
Tijuana Info 132.1  General Lucio Blanco Intl (MMRX) Reynosa App Con 118.8 Reynosa Tower 118.8  General Mariano Escobedo Intl (MMMY) ATIS 127.7  Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9  General R Fierro Villalobos Intl (MMCU) ATIS 127.9  Chihuahua App Con 121.0 Chihuahua Tower 118.4  General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6  Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3	H-7B, L-20G L-6i H-4H, L-4J, 5A
Tijuana Info 132.1  General Lucio Blanco Intl (MMRX) Reynosa App Con 118.8 Reynosa Tower 118.8  General Mariano Escobedo Intl (MMMY) ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9  General R Fierro Villalobos Intl (MMCU) ATIS 127.9 Chihuahua App Con 121.0 Chihuahua Tower 118.4  General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3  General Servando Canales (MMMA)	H-7B, L-20G L-6i H-4H, L-4J, 5A
Tijuana Info 132.1  General Lucio Blanco Intl (MMRX)  Reynosa App Con 118.8 Reynosa Tower 118.8  General Mariano Escobedo Intl (MMMY)  ATIS 127.7  Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9  General R Fierro Villalobos Intl (MMCU)  ATIS 127.9  Chihuahua App Con 121.0 Chihuahua Tower 118.4  General Rodolfo Sanchez Taboada Intl (MMML)  ATIS 127.6  Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3  General Servando Canales (MMMA)  Matamoros App Con 118.0 Matamoros Tower 118.0	H-7B, L-20G L-6l H-4H, L-4J, 5A H-7C, L-21A
Tijuana Info 132.1  General Lucio Blanco Intt (MMRX) Reynosa App Con 118.8 Reynosa Tower 118.8  General Mariano Escobedo Intl (MMMY)  ATIS 127.7  Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9  General R Fierro Villalobos Intl (MMCU)  ATIS 127.9  Chihuahua App Con 121.0 Chihuahua Tower 118.4  General Rodolfo Sanchez Taboada Intl (MMML)  ATIS 127.6  Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3  General Servando Canales (MMMA)  Matamoros App Con 118.0 Matamoros Tower 118.0  Plan De Guadalupe Intl (MMIO)	H-7B, L-20G L-6l H-4H, L-4J, 5A H-7C, L-21A
Tijuana Info 132.1  General Lucio Blanco Intt (MMRX) Reynosa App Con 118.8 Reynosa Tower 118.8  General Mariano Escobedo Intt (MMMY)  ATIS 127.7  Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9  General R Fierro Villalobos Intl (MMCU)  ATIS 127.9  Chihuahua App Con 121.0 Chihuahua Tower 118.4  General Rodolfo Sanchez Taboada Intt (MMML)  ATIS 127.6  Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3  General Servando Canales (MMMA)  Matamoros App Con 118.0 Matamoros Tower 118.0  Plan De Guadalupe Intt (MMIO)  Saltillo App Con 127.4 Saltillo Tower 118.4	H–7B, L–20G L–6i H–4H, L–4J, 5A H–7C, L–21A H–7E
Tijuana Info 132.1  General Lucio Blanco Intl (MMRX) Reynosa App Con 118.8 Reynosa Tower 118.8  General Mariano Escobedo Intl (MMMY) ATIS 127.7  Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9  General R Fierro Villalobos Intl (MMCU) ATIS 127.9  Chihuahua App Con 121.0 Chihuahua Tower 118.4  General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6  Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3  General Servando Canales (MMMA)  Matamoros App Con 118.0 Matamoros Tower 118.0  Plan De Guadalupe Intl (MMIO)  Saltillo App Con 127.4 Saltillo Tower 118.4  Quetzalcoatl Intl (MMNL)	H–7B, L–20G L–6i H–4H, L–4J, 5A H–7C, L–21A H–7E
Tijuana Info 132.1  General Lucio Blanco Intl (MMRX)  Reynosa App Con 118.8 Reynosa Tower 118.8  General Mariano Escobedo Intl (MMMY)  ATIS 127.7  Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9  General R Fierro Villalobos Intl (MMCU)  ATIS 127.9  Chihuahua App Con 121.0 Chihuahua Tower 118.4  General Rodolfo Sanchez Taboada Intl (MMML)  ATIS 127.6  Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3  General Servando Canales (MMMA)  Matamoros App Con 118.0 Matamoros Tower 118.0  Plan De Guadalupe Intl (MMIO)	H-7B, L-20H H-7B, L-20G  L-6I  H-4H, L-4J, 5A  H-7C, L-21A  H-7B, L-20G

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In support of the Federal Aviation Administration's Runway Incursion Program, selected towered airport diagrams have been published in the Airport Diagram section of the A/FD. Diagrams will be listed alphabetically by associated city and airport name. Airport diagrams, depicting runway and taxiway configurations, will assist both VFR and IFR pilots in ground taxi operations. The airport diagrams in this publication are the same as those published in the U.S. Terminal Procedures Publications. For additional airport diagram legend information see the U.S. Terminal Procedures Publication.

NOTE: Some text data published under the individual airport in the front portion of the A/FD may be more current than the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

### GENERAL INFORMATION

### PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

Available pilot controlled lighting (PCL) systems are indicated as follows:

- 1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., 🚳, 🔾, 🗞
- 2. Approach lighting systems that do not bear a system identification are indicated with a negative "• " beside the name.

A star (\*) indicates non-standard PCL, consult the individual airport in the front portion of the A/FD, e.g., 0\*

To activate lights use frequency indicated in the communication section of the chart with a **0** or the appropriate lighting system identification e.g., UNICOM 122.8 **0**, **a**, **o** 

<b>KEY</b>	M	KI

7 times within 5 seconds

5 times within 5 seconds

3 times within 5 seconds

### **FUNCTION**

Highest intensity available

Medium or lower intensity (Lower REIL or REIL-off) Lowest intensity available (Lower REIL or REIL-off)

### CHART CURRENCY INFORMATION

FAA procedure amendment number Amdt 11A 99365 Date of latest change Orig 00365

The Chart Date indentifies the Julian date the chart was added to the volume or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest addition or change was first published.

The Procedure Amendment Number precedes the Chart Date, and changes any time instrument information (e.g., DH, MDA, approach routing, etc.) changes. Procedure changes also cause the Chart Date to change.

### **MISCELLANEOUS**

- ★ Indicates a non-continuously operating facility, see the individual airport in the front portion of the A/FD.
- # Indicates control tower temporarily closed UFN.

09071 LEGEND

### INSTRUMENT APPROACH PROCEDURES (CHARTS)

### AIRPORT DIAGRAM Runways Helicopter Alighting Areas (H) [H] [H] [A] [H] Other Than Stopways, Taxiways, . Displaced Hard Negative Symbols used to identify Copter Procedures Hard Surface Parking Areas, Threshold Surface landing point...... H 👪 H Water Runways xxx Runway Threshold elevation.....THRE 123 Runway TDZ elevation......TDZE 123 Closed Closed Meta Under Runway Taxiway Construction Surface -- 0.3% DOWN (shown when runway slope is greater than ARRESTING GEAR: Specific arresting gear systems; or equal to 0.3%) e.g., BAK12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots refer to Runway Slope measured to midpoint on runways appropriate DOD publications. 8000 feet or longer. \_\_uni-directional bi-directional ₹ Jet Barrier U.S. Navy Optical Landing System (OLS) "OLS" location is shown because of its height of ARRESTING SYSTEM approximately 7 feet and proximity to edge of runway may create an obstruction for some types REFERENCE FEATURES of aircraft. Buildings Approach light symbols are shown in the Tanks..... Flight Information Handbook. Airport digaram scales are variable. Airport Beacon #...... ☆ True/magnetic North orientation may vary from Radar Reflectors. diagram to diagram Control Tower #..... Coordinate values are shown in 1 or ½ minute Hot Spot ..... increments. They are further broken down into 6 second ticks, within each 1 minute increments. # When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and Positional accuracy within ±600 feet unless otherwise further identified as TWR noted on the chart. Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds All new and revised airport diagrams are shown referif any) but excluding areas designated as stopways. enced to the World Geodetic System (WGS) (noted on appropriate diagram), and may not be compatible A D symbol is shown to indicate runway declared distance information available, see appropriate A/FD, with local coordinates published in FLIP. (Foreign Only) Alaska or Pacific Supplement for distance information. Runway Weight Bearing Capacity/or PCN Pavement Classification Number is shown as a codified expression. Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 S75, T185, ST175, TT325 PCN 80 F/D/X/U Rwy 2 ldg 8000' **FIELD** Runway Displaced Threshold **ELEV** Slope Runway 174 **EMAS** Identification **BAK-12** 1200 X 200 0.7% UP 1000 X 200 9000 X 200 023.2°() Arresting System Operations ELEV Runway End (in feet) 164 Runway Dimensions Runway Heading Elevation (in feet) Stopway Dimensions (Magnetic) (in feet) SCOPE Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating Computer Based Navigation Systems (I.E.,

**LEGEND** 

INS, GPS) aboard aircraft. Airport diagrams are not intended to be used for approach and landing or departure

operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

# AIRPORT DIAGRAMS HOT SPOTS

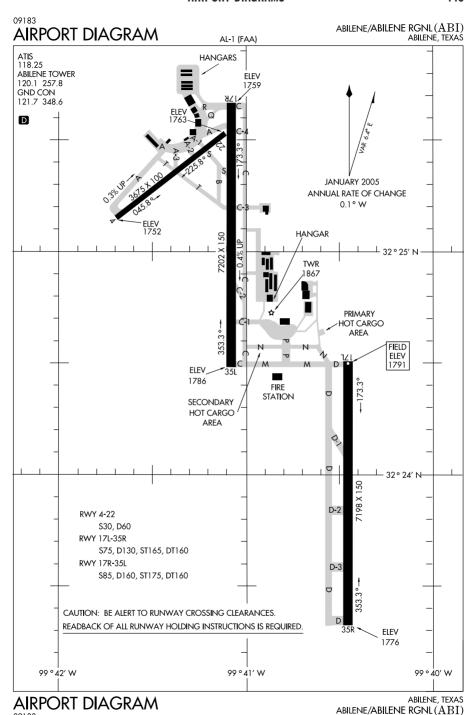
An "Airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on a airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as open circles or polygons designated as "HOT<sup>1</sup>", "HOT<sup>2</sup>", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

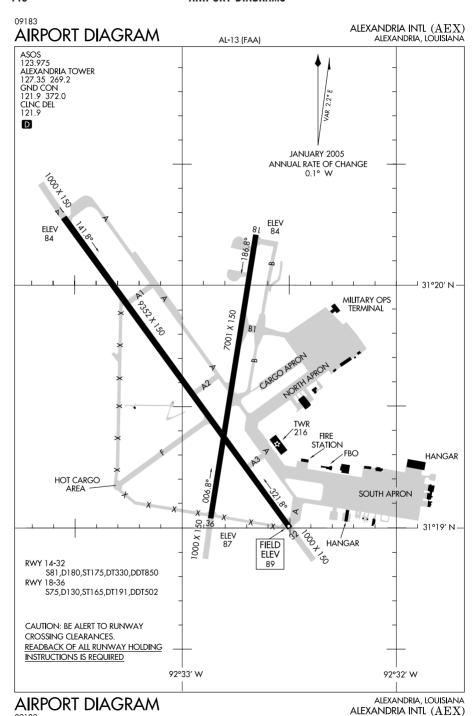
CITY/AIRPORT	HOT SPOT	DESCRIPTION

	TEX	KAS
MIDLAND		
MIDLAND INTL (MAF)	HOT <sup>1</sup>	Twy B and Twy P merge.
	HOT <sup>2</sup>	Area not visible from tower. Limited air traffic
		services provided.
	HOT <sup>3</sup>	Area not visible from tower. Limited air traffic

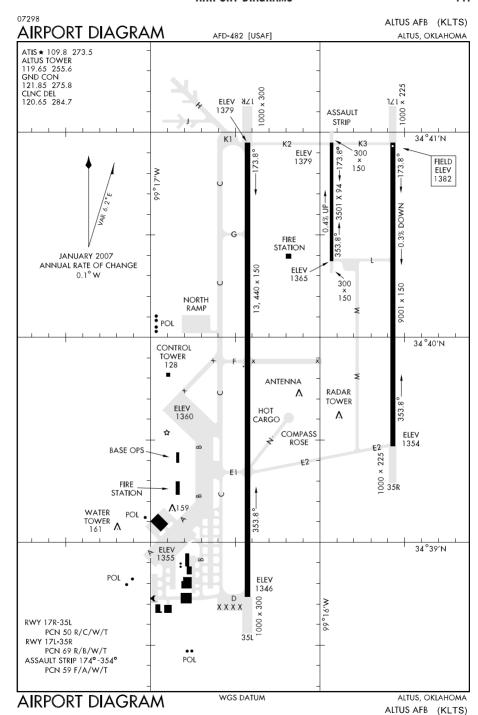
services provided.

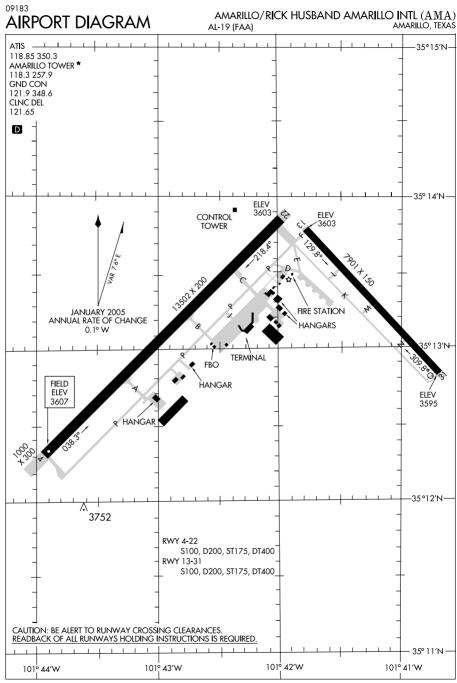


SC, 17 DEC 2009 to 11 FEB 2010



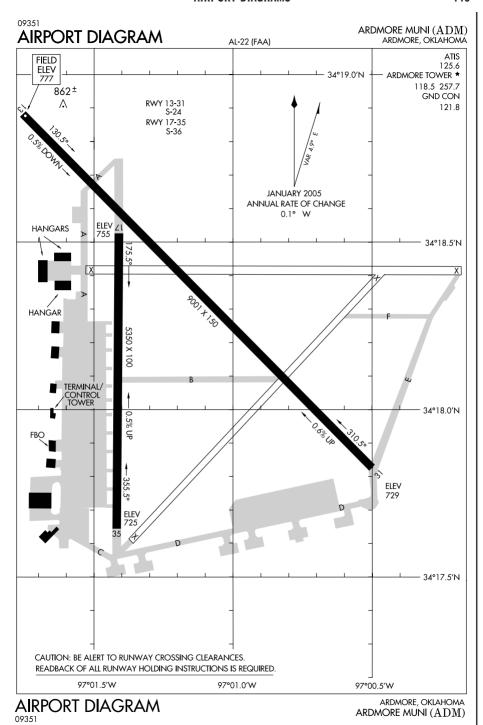
SC, 17 DEC 2009 to 11 FEB 2010

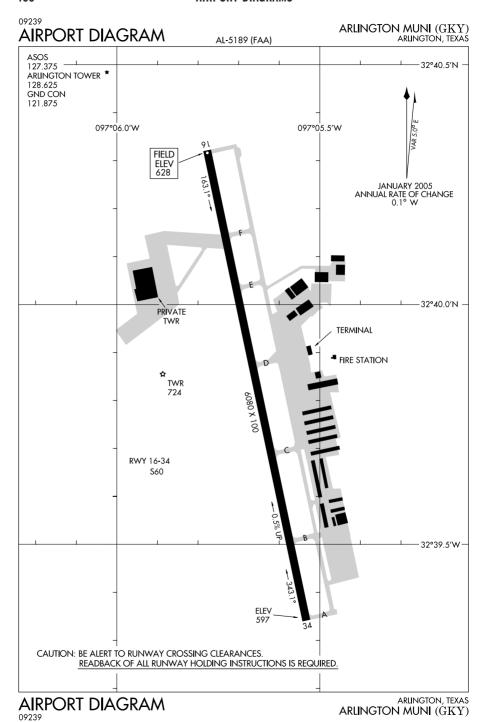




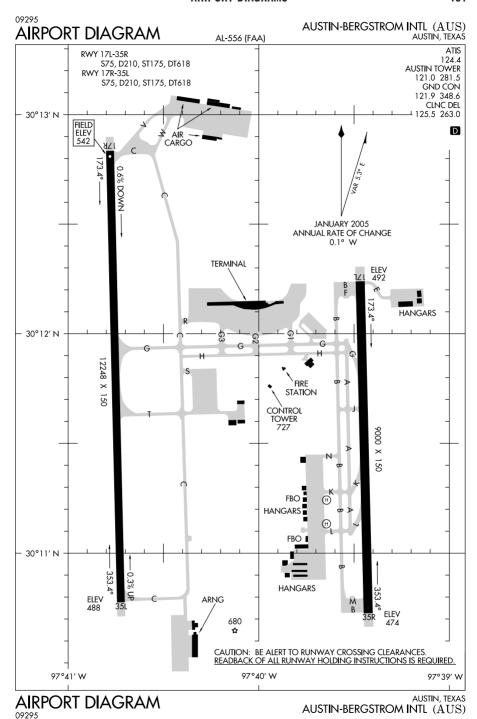
AIRPORT DIAGRAM

AMARILLO/ RICK HUSBAND AMARILLO INTL (AMA)

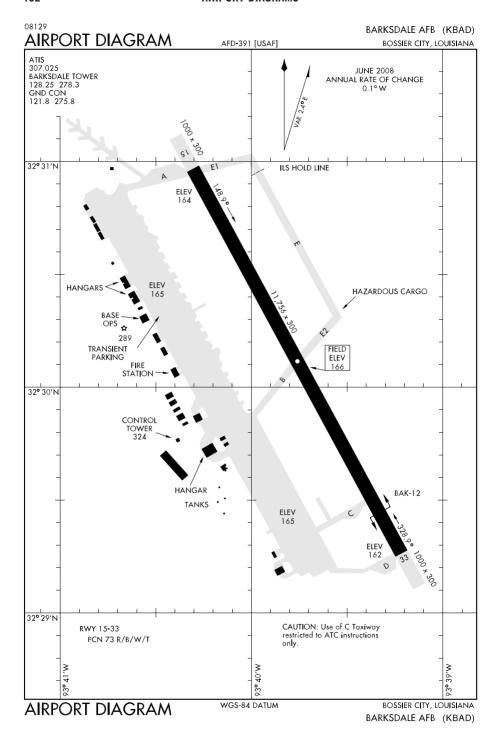




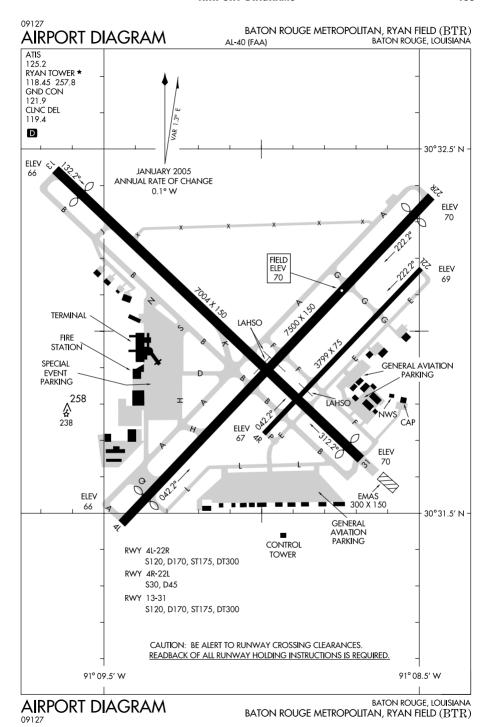
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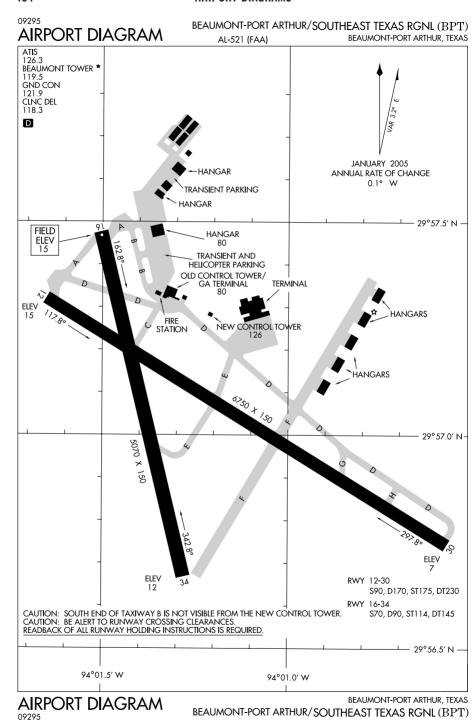


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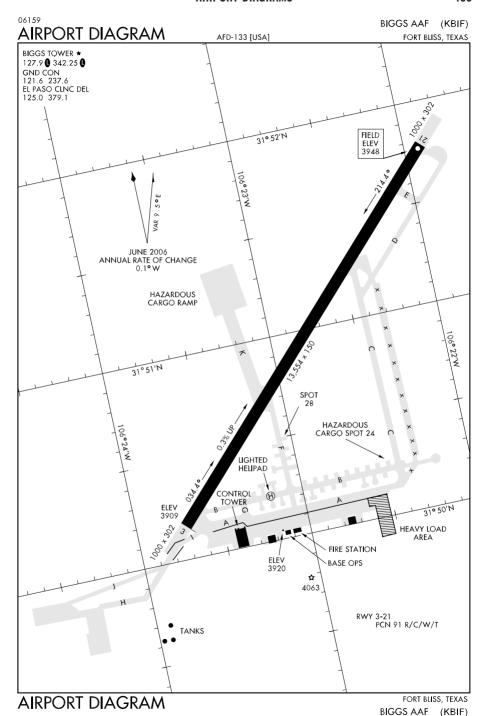


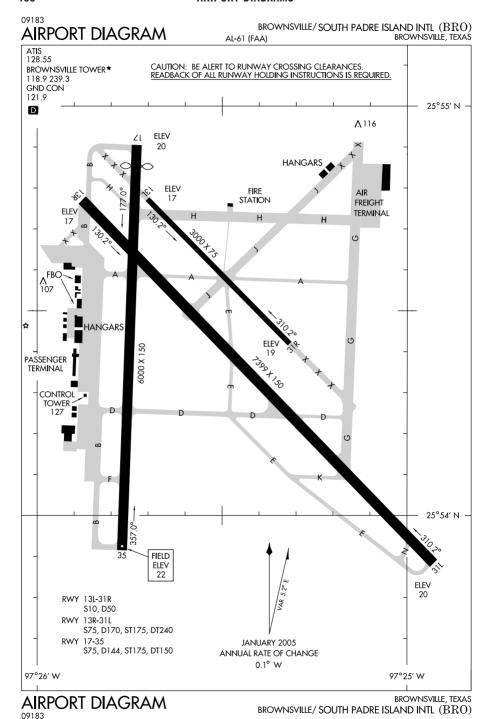
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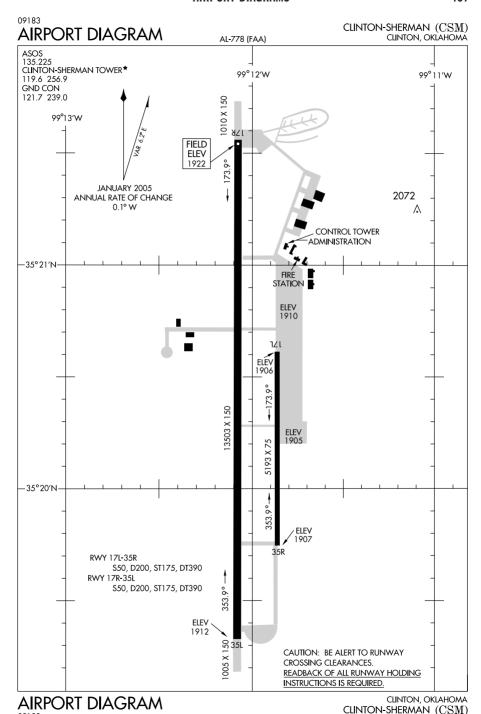


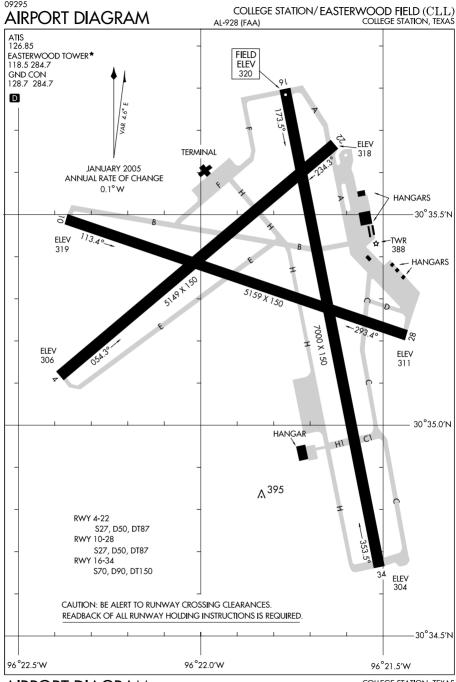


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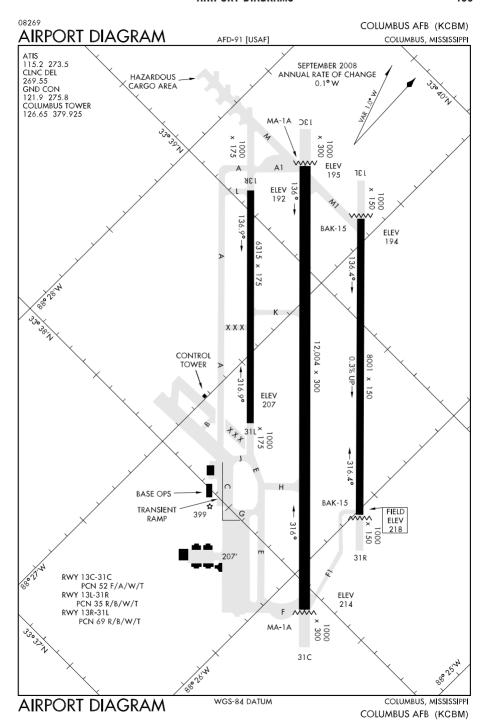


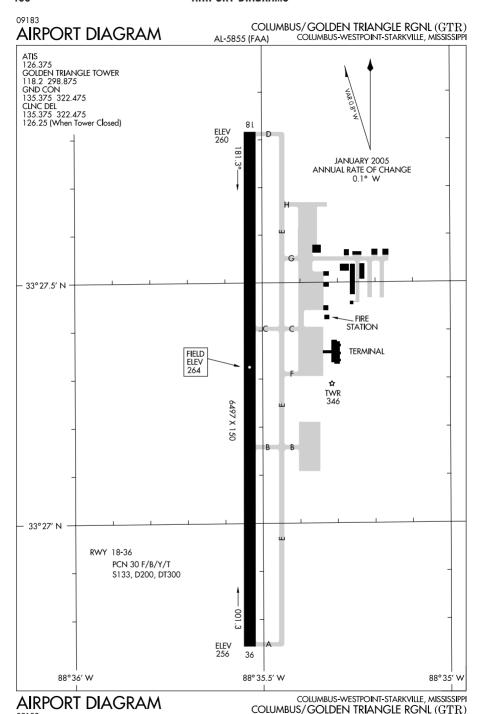


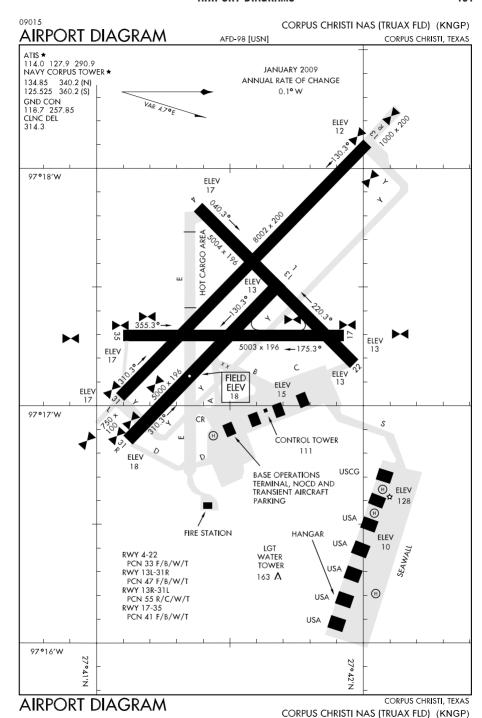


AIRPORT DIAGRAM

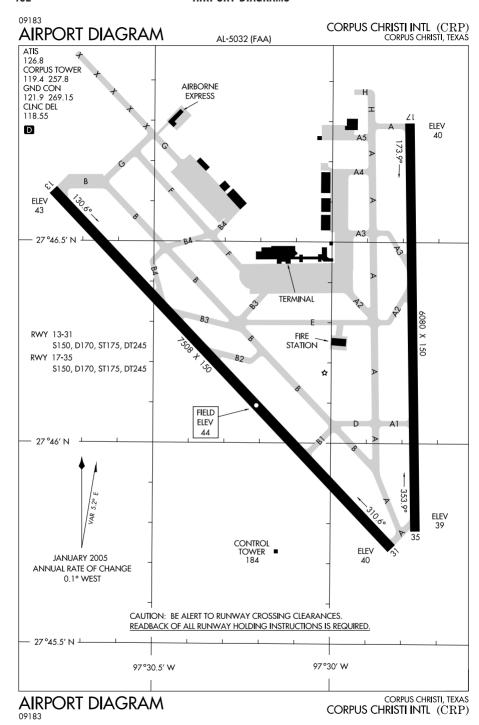
COLLEGE STATION/EASTERWOOD FIELD (CLL)



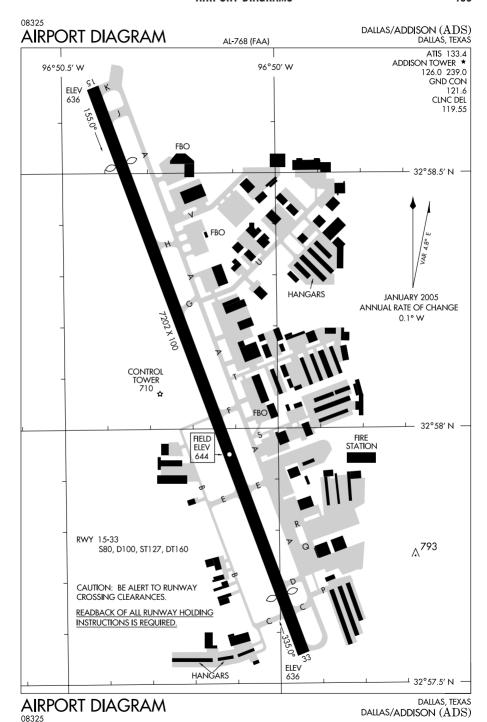


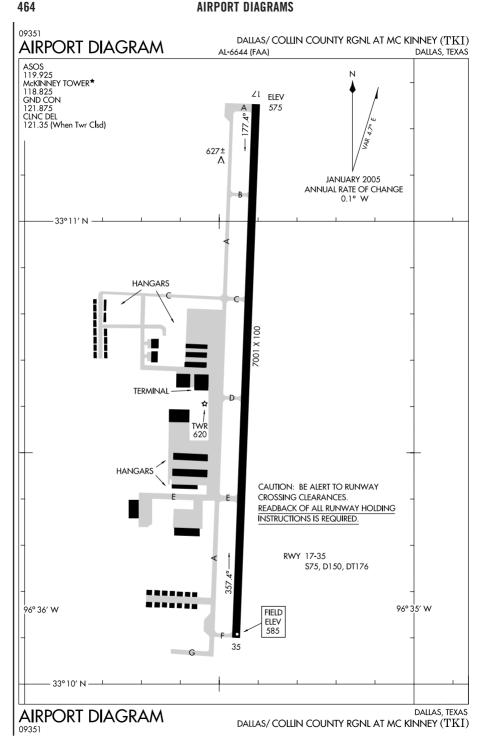


SC, 17 DEC 2009 to 11 FEB 2010

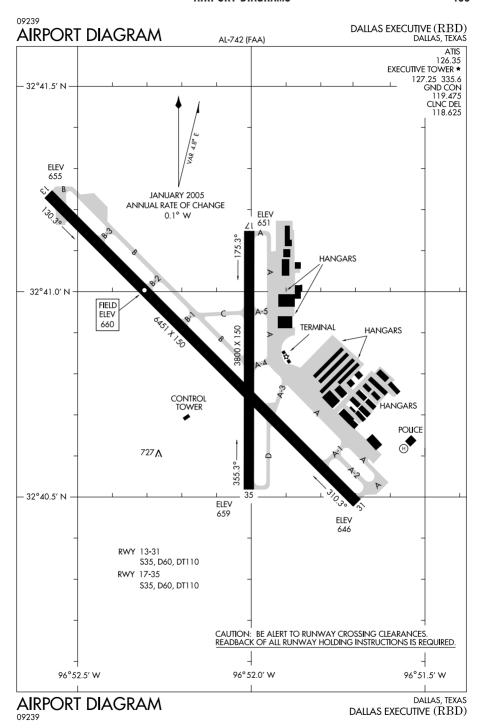


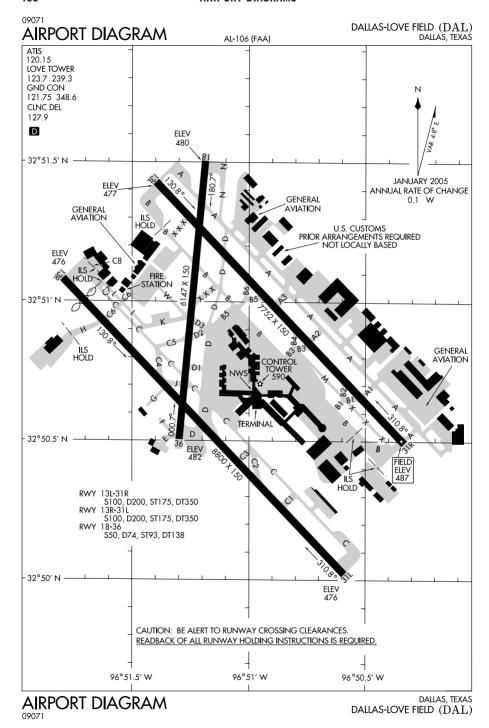
SC, 17 DEC 2009 to 11 FEB 2010

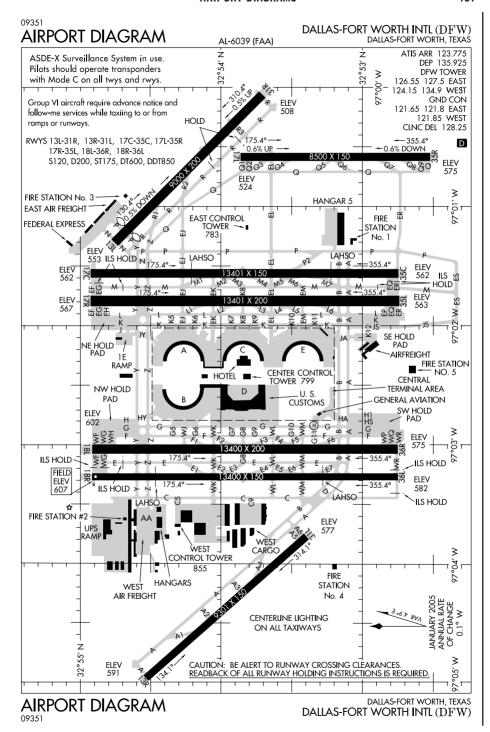


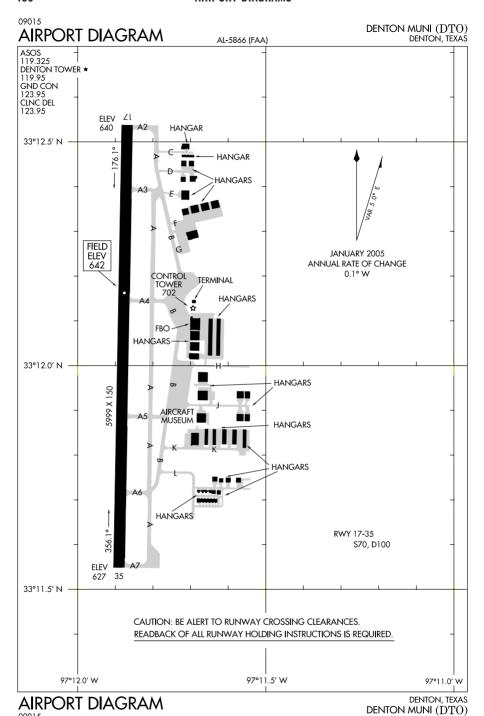


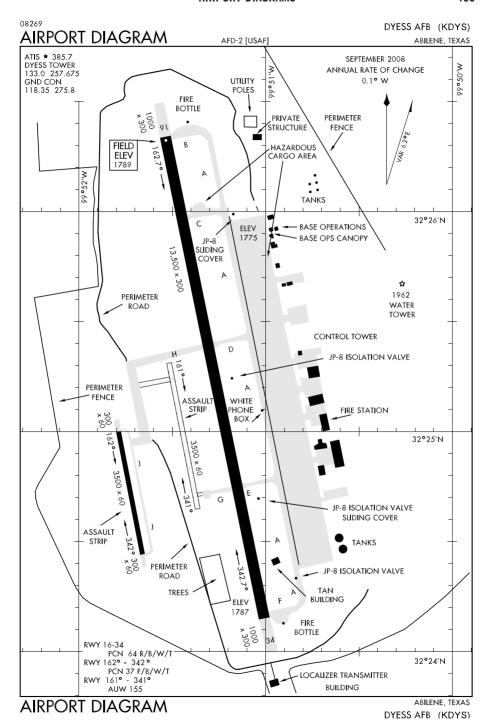
SC, 17 DEC 2009 to 11 FEB 2010

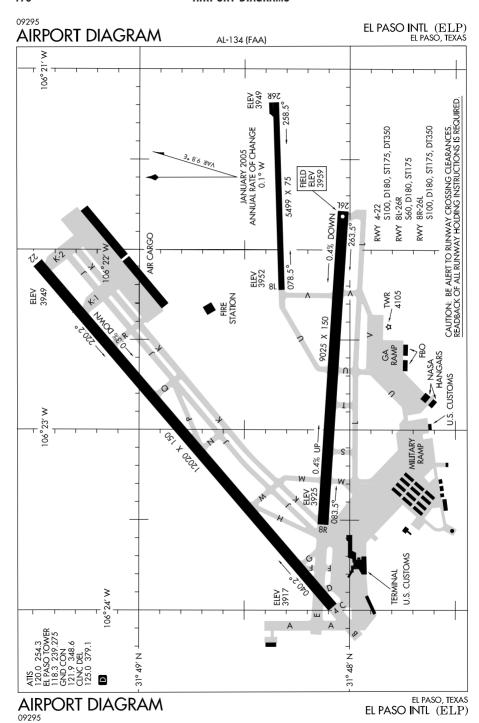




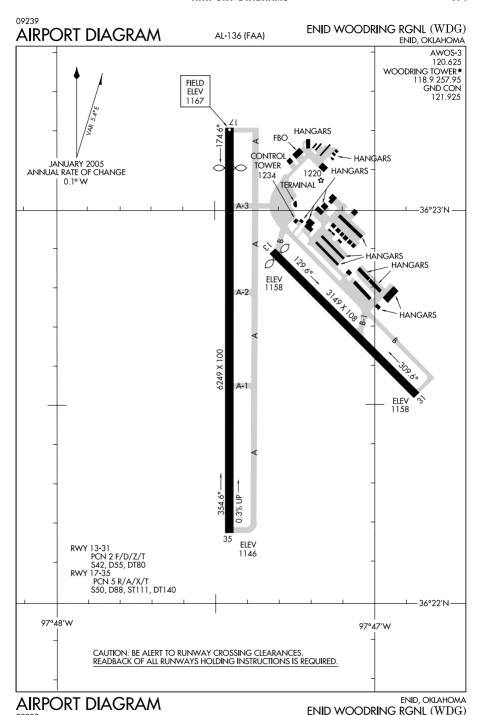




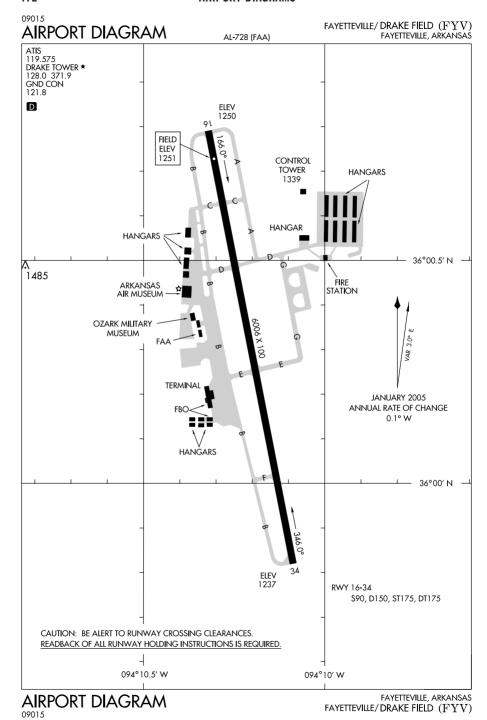


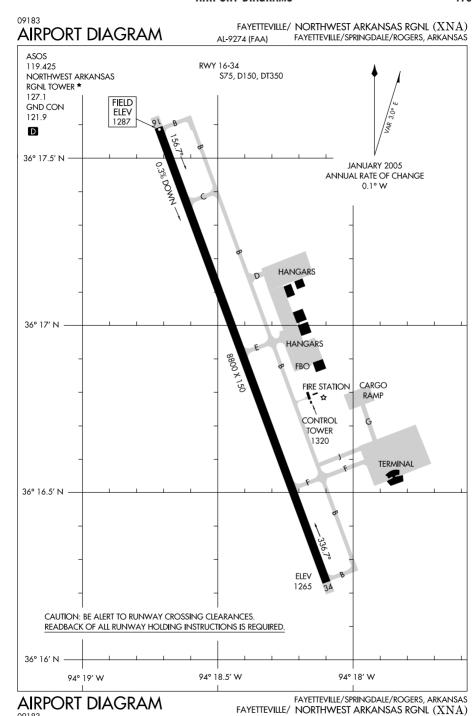


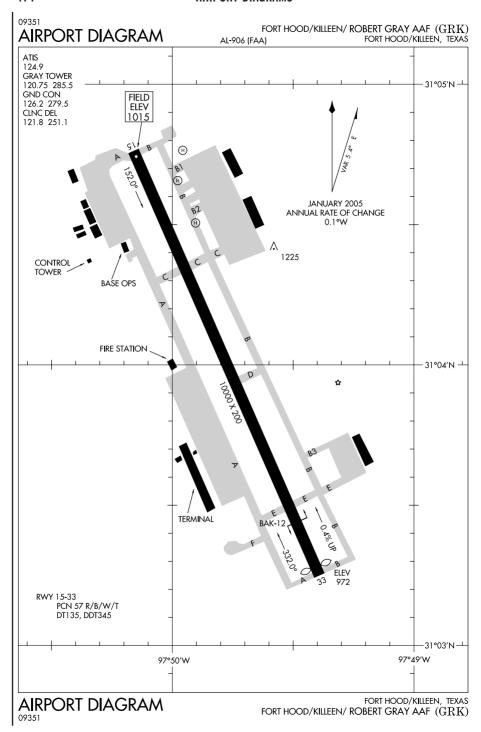
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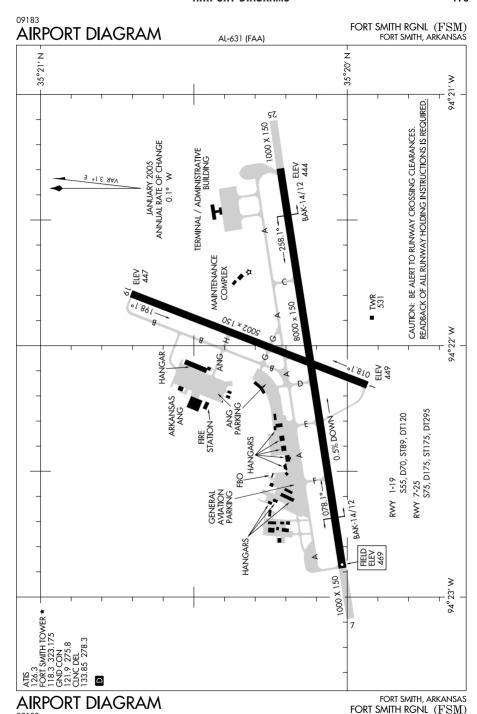
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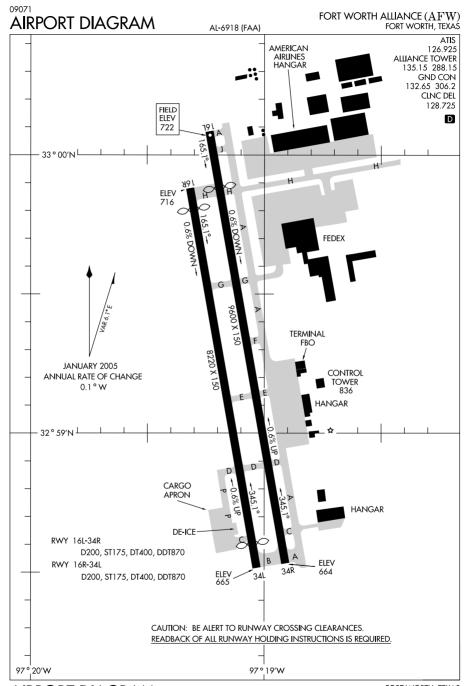






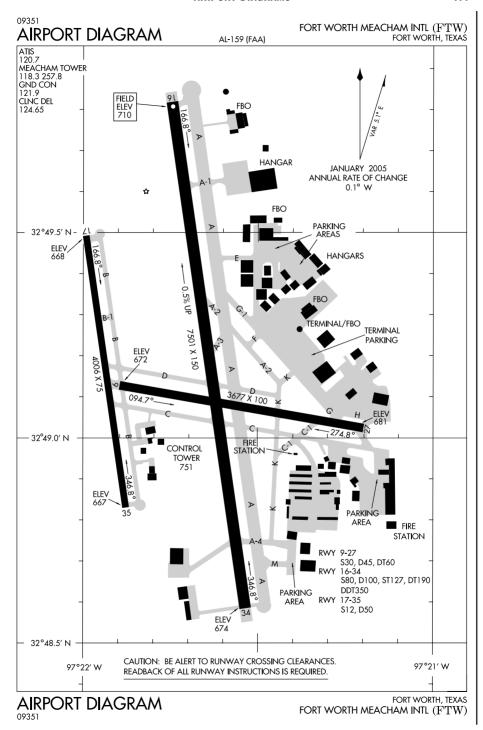
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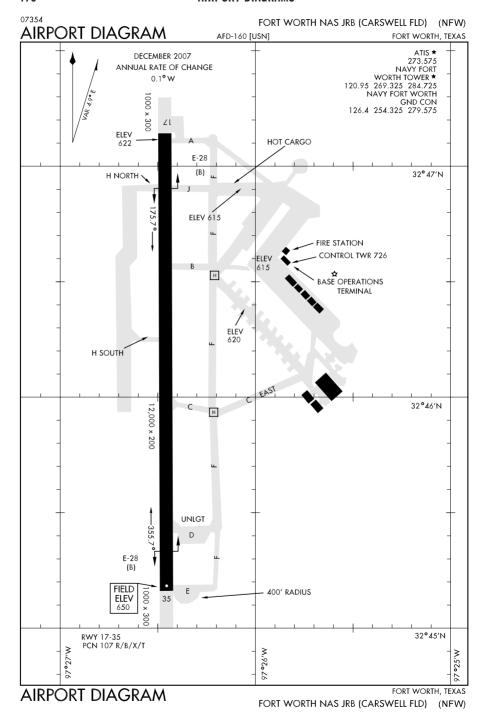




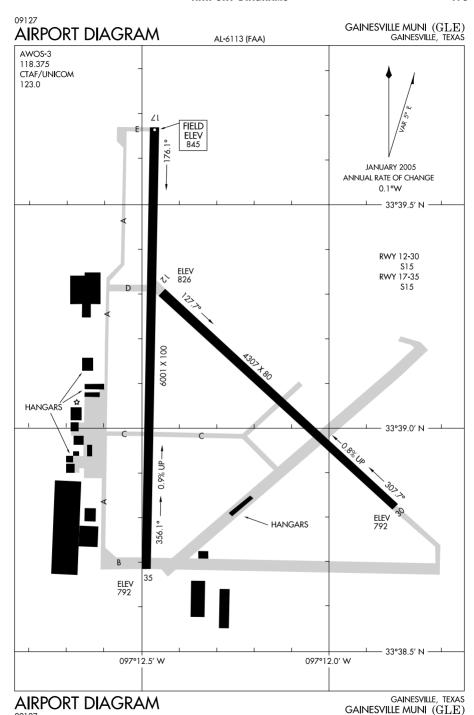
AIRPORT DIAGRAM

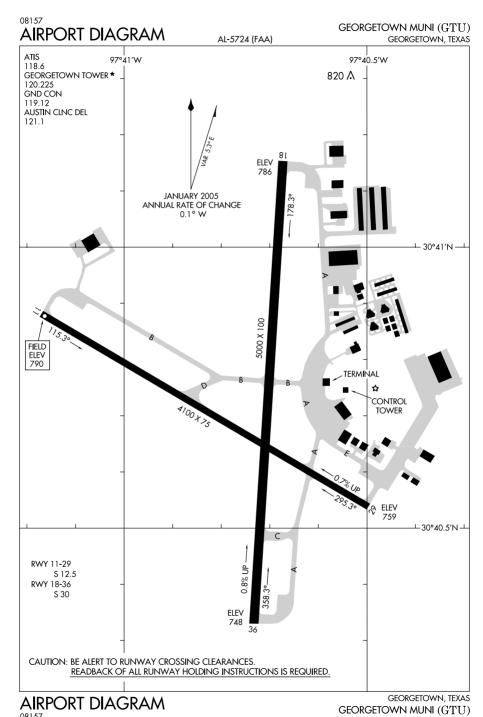
FORT WORTH, TEXAS FORT WORTH ALLIANCE (AFW)

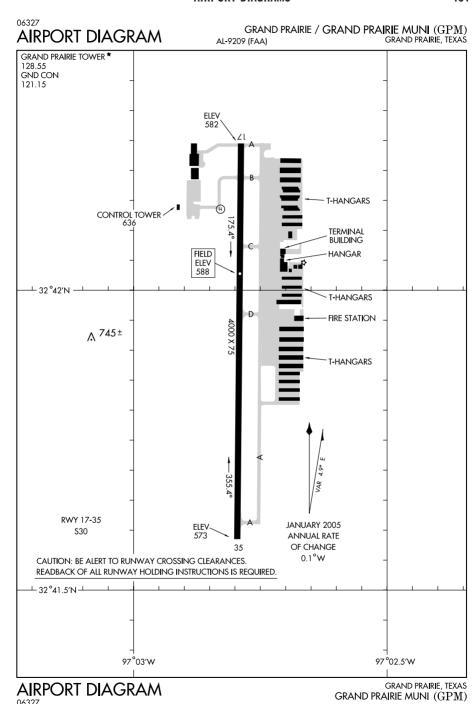


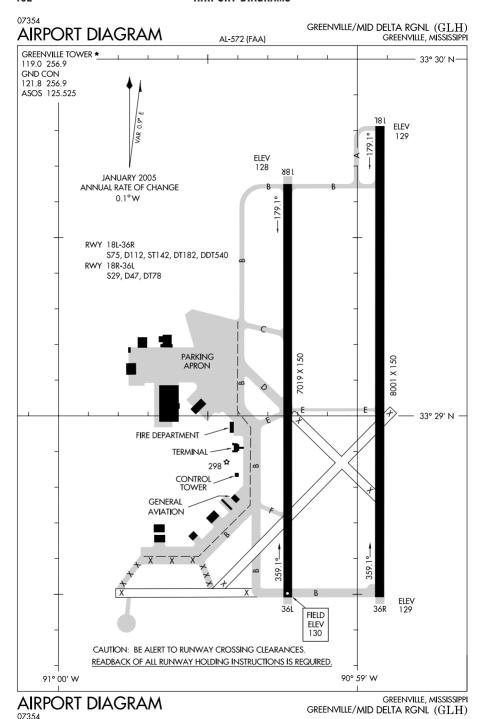


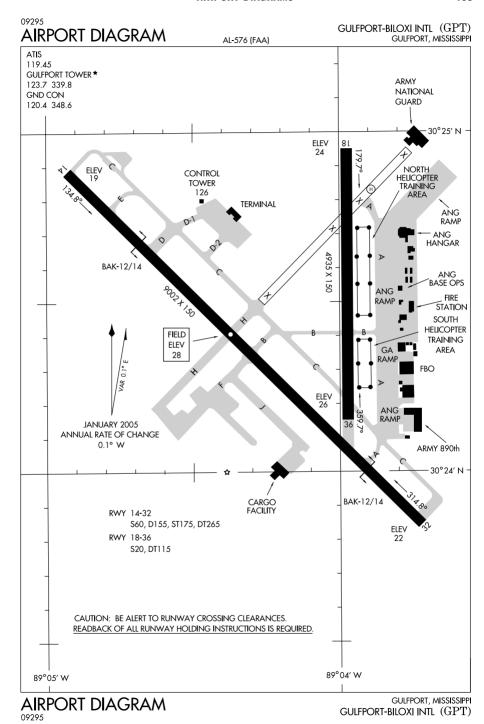
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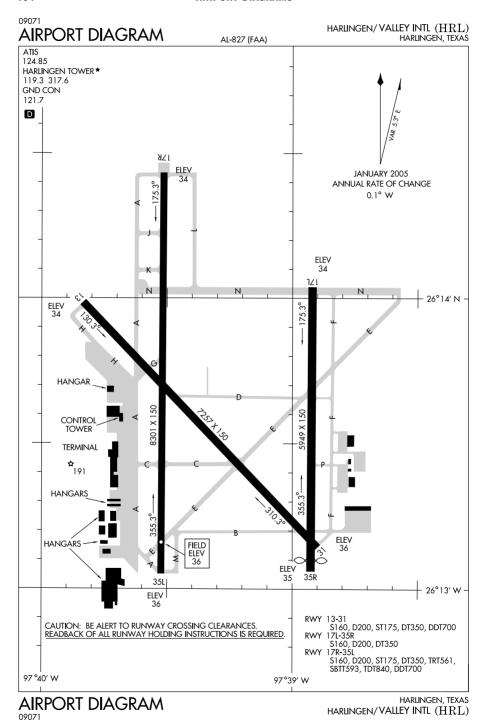


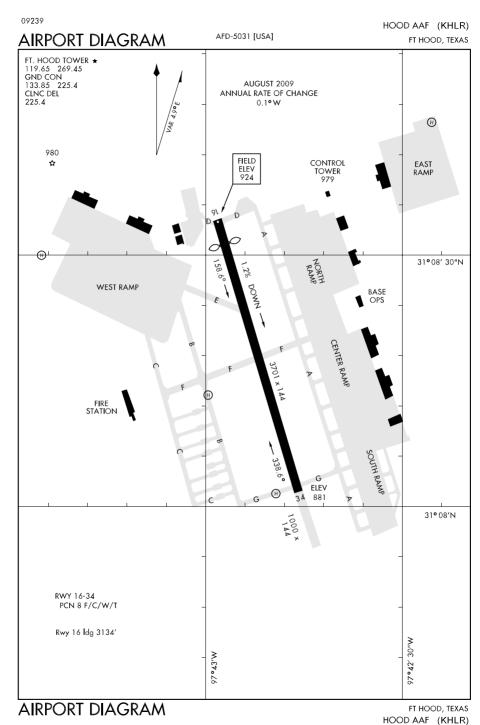


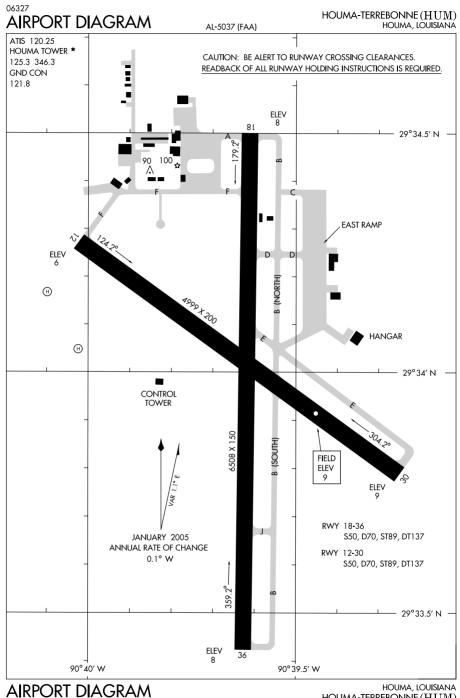




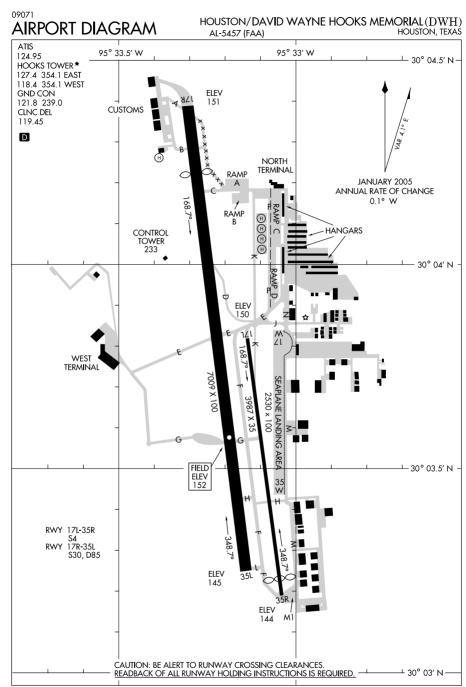




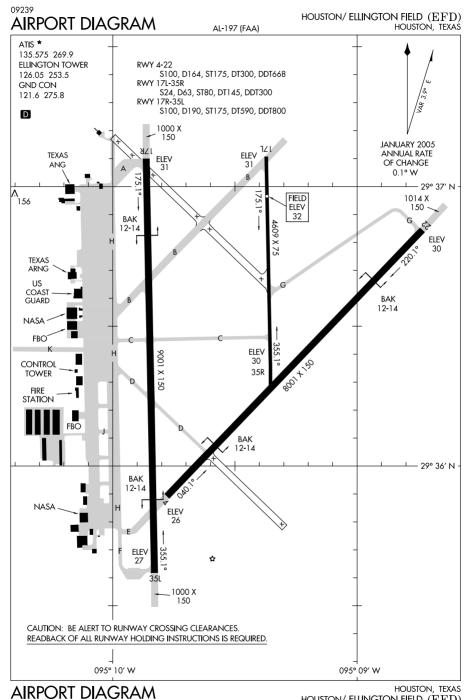




HOUMA, LOUISIANA HOUMA-TERREBONNE (HUM)

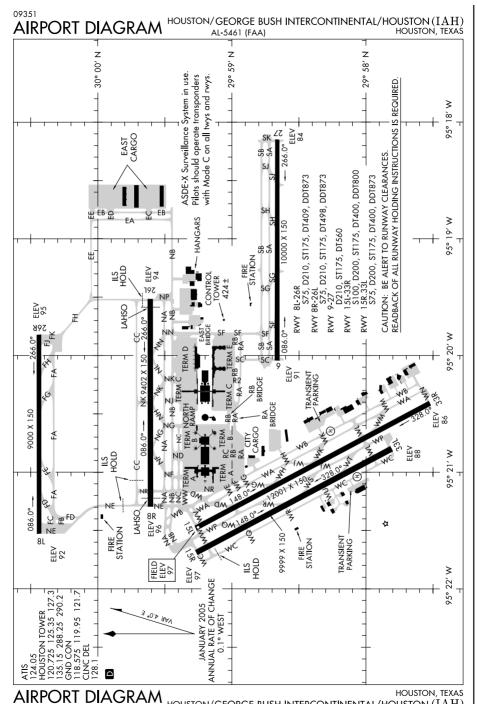


HOUSTON, TEXAS HOUSTON/DAVID WAYNE HOOKS MEMORIAL ( $\mathrm{DWH}$ )

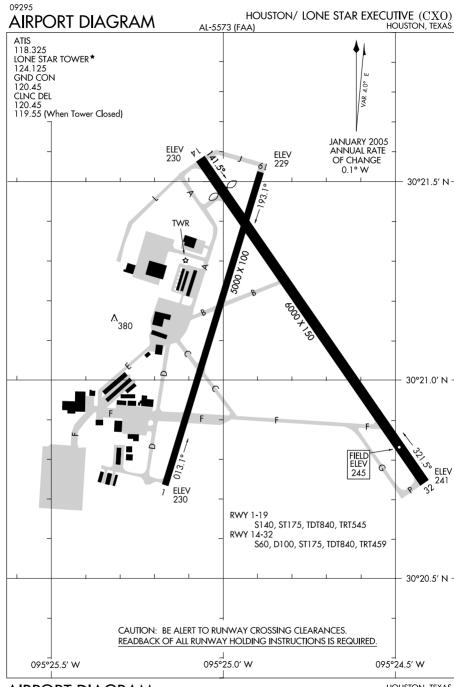


09239

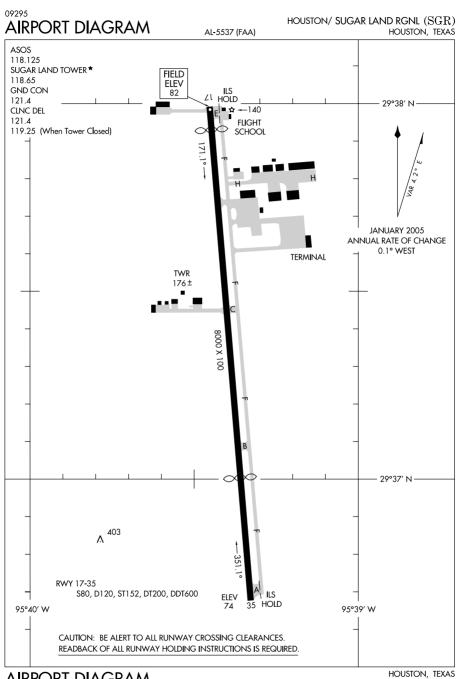
HOUSTON/ ELLINGTON FIELD (EFD)



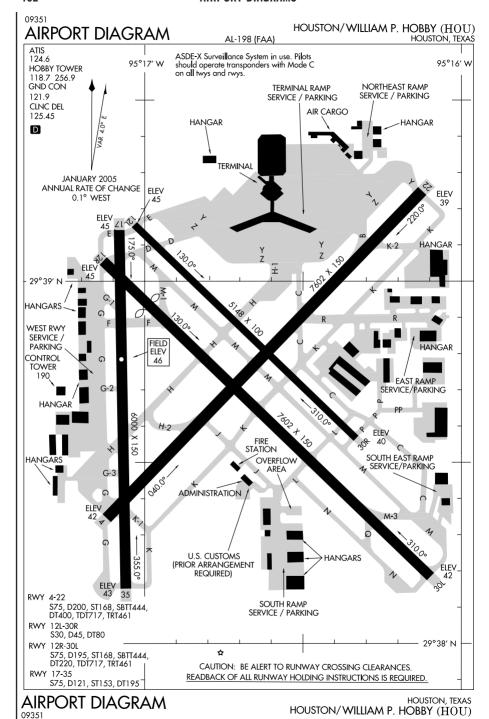
09351 HOUSTON/GEORGE BUSH INTERCONTINENTAL/HOUSTON (IAH)

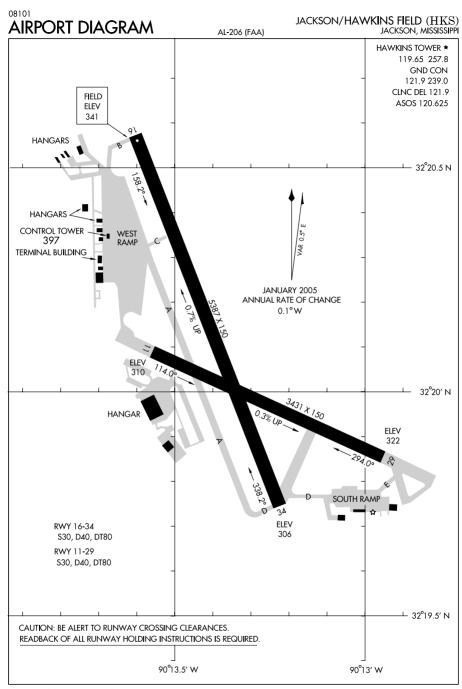


HOUSTON/ LONE STAR EXECUTIVE (CXO)

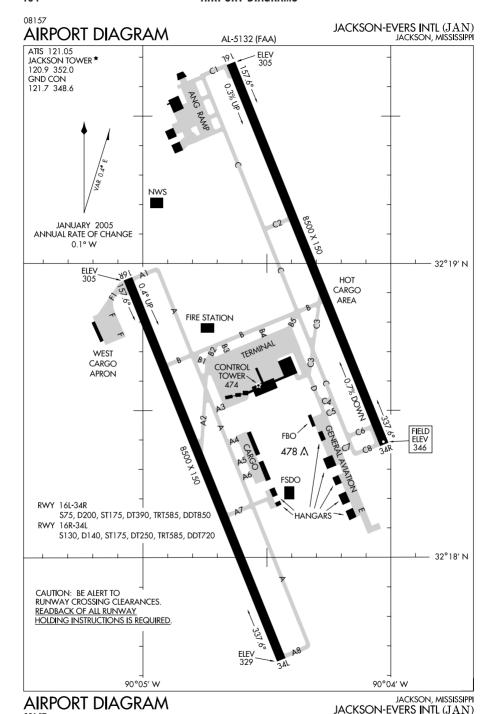


HOUSTON/ SUGAR LAND RGNL (SGR)

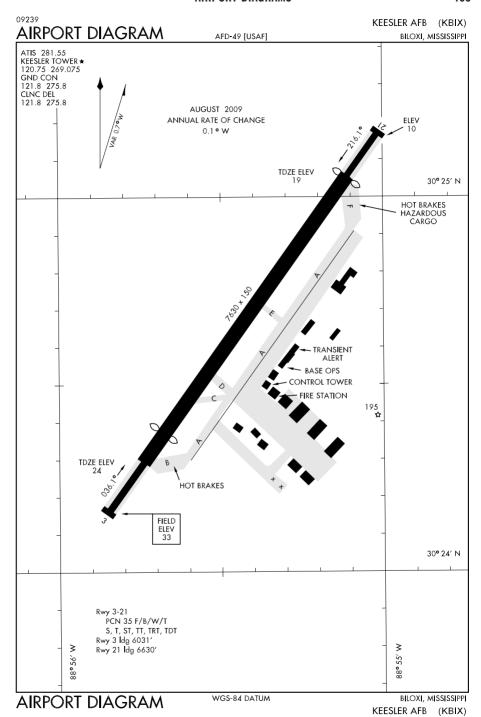


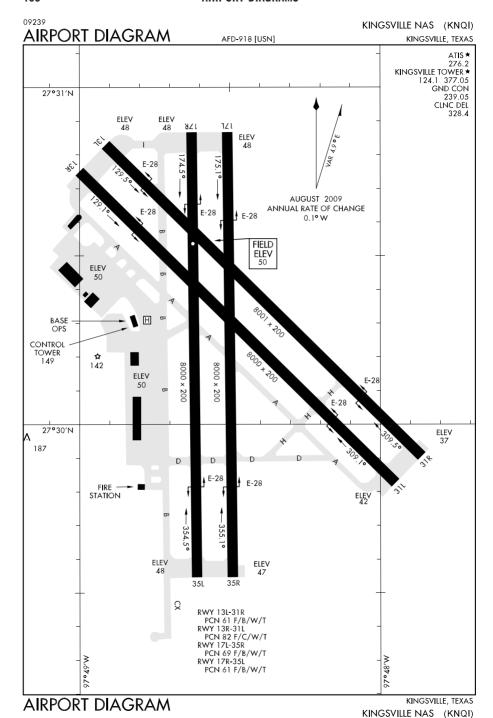


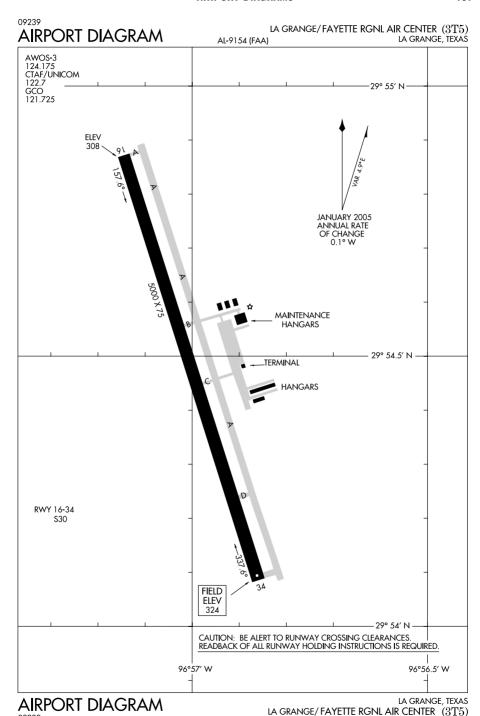
JACKSON, MISSISSIPPI JACKSON/HAWKINS FIELD (HKS)

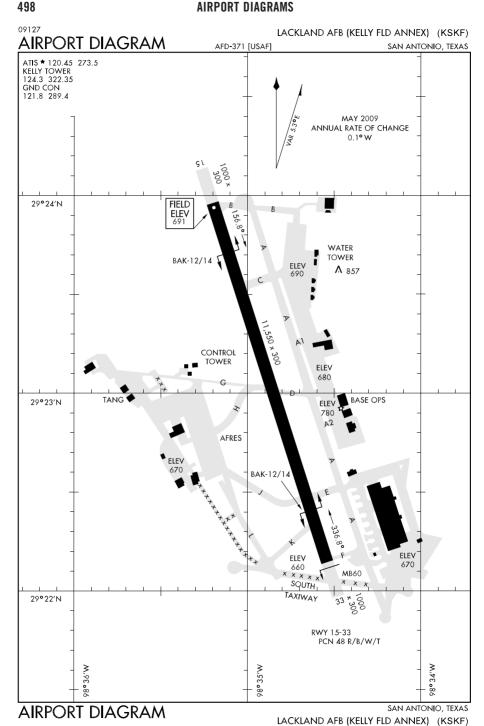


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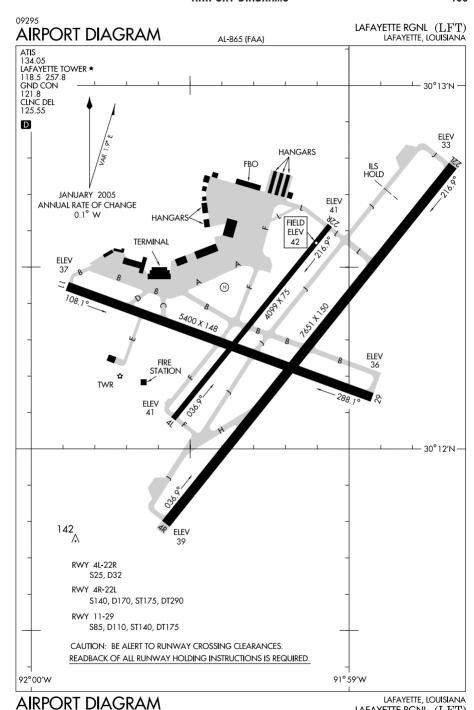






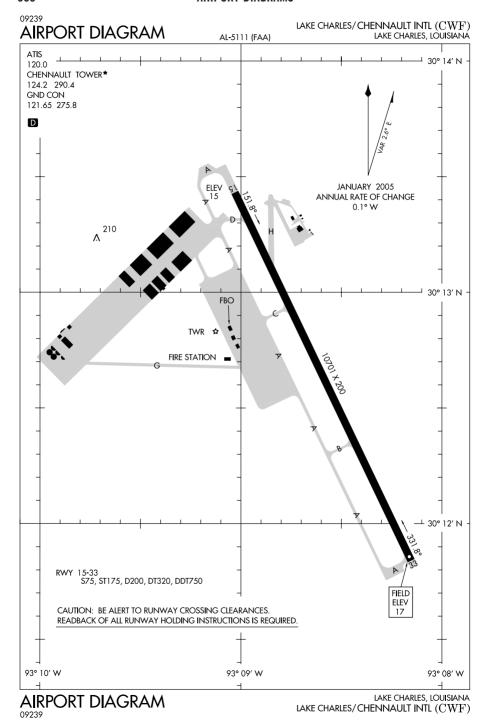
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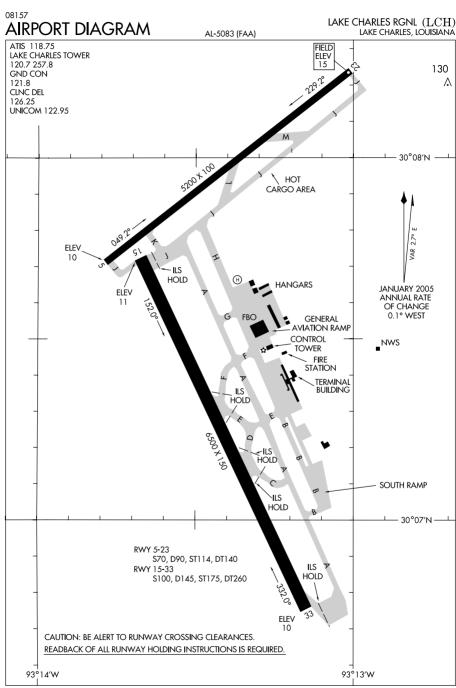
LAFAYETTE RGNL (LFT)



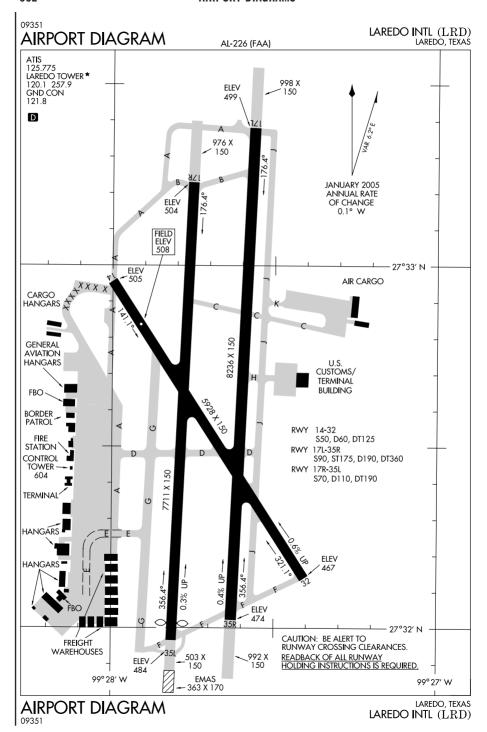
SC, 17 DEC 2009 to 11 FEB 2010

09295

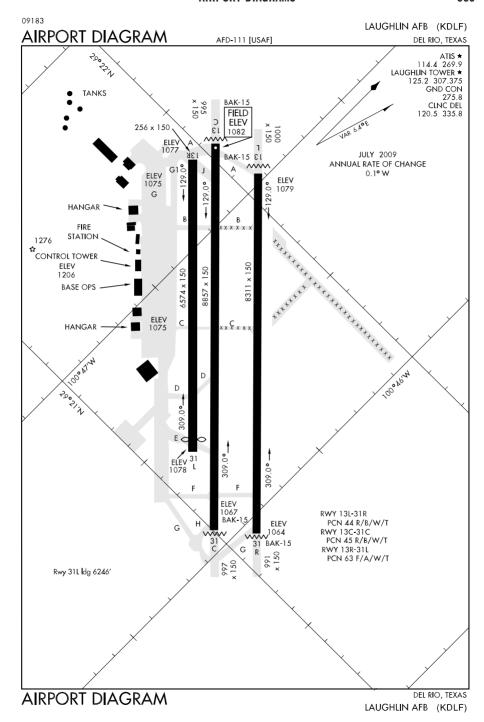


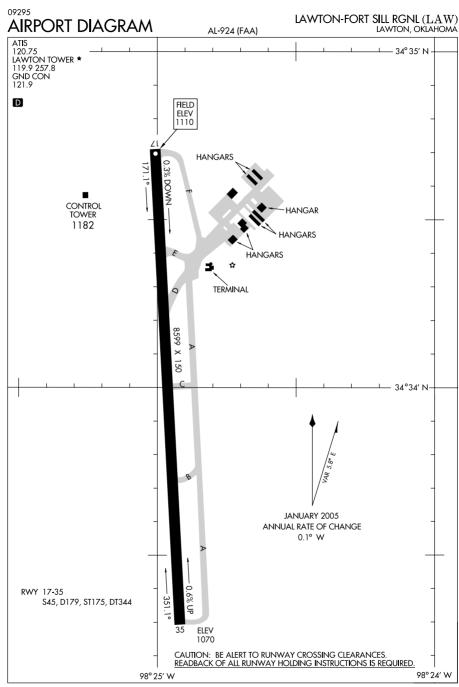


LAKE CHARLES, LOUISIANA LAKE CHARLES RGNL (LCH)

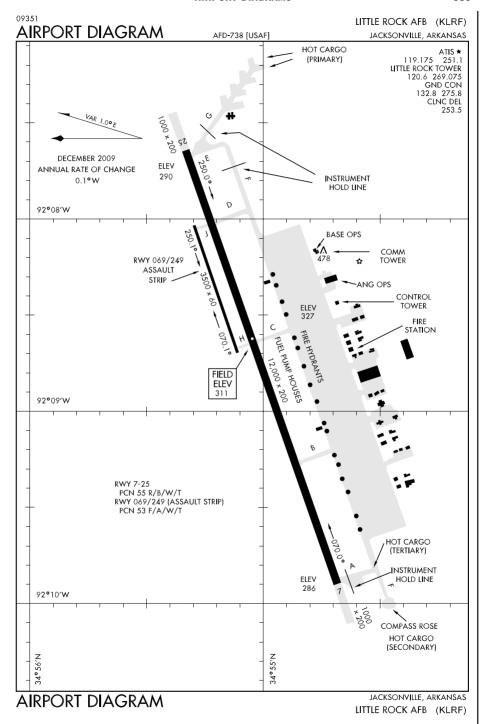


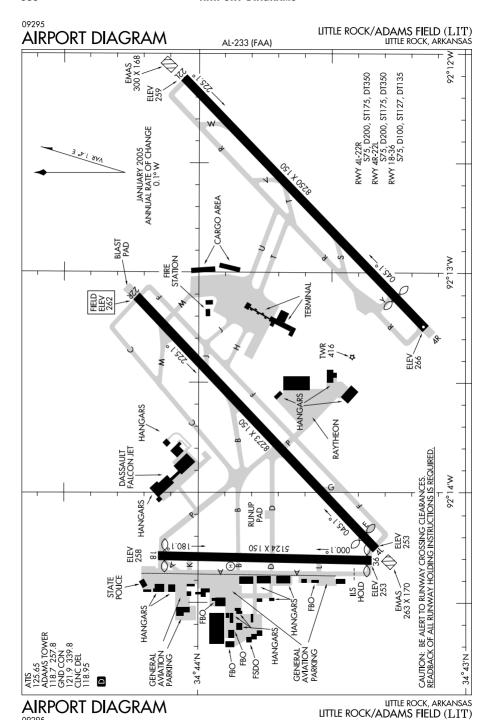
SC, 17 DEC 2009 to 11 FEB 2010

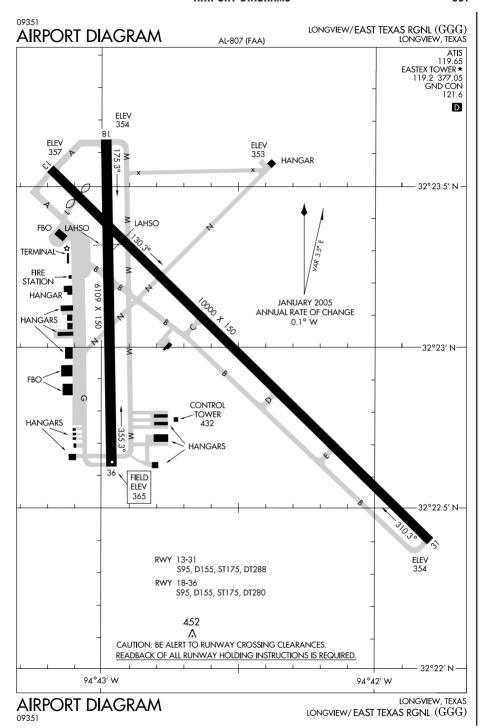


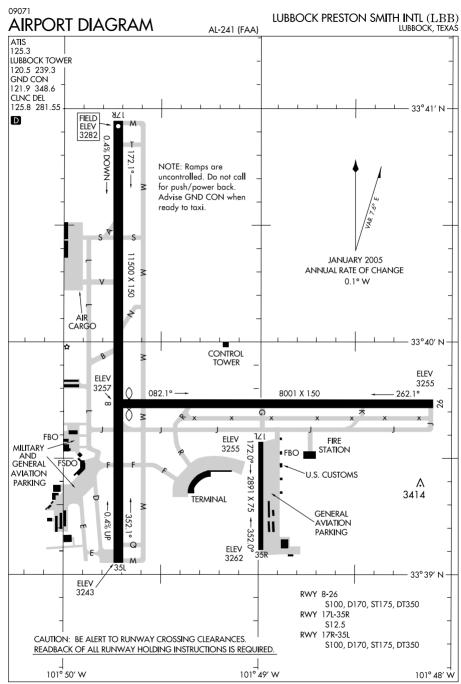


LAWTON, OKLAHOMA LAWTON-FORT SILL RGNL (LAW)

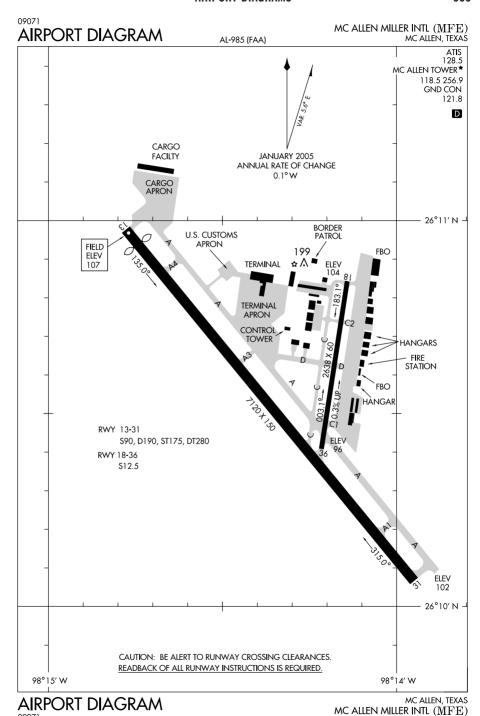


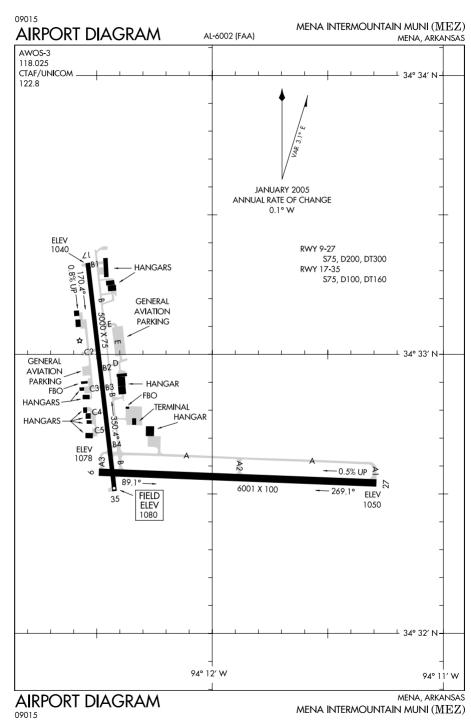


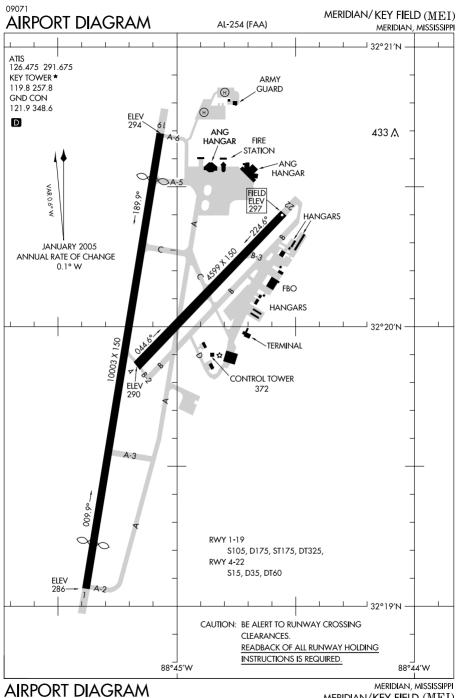




LUBBOCK PRESTON SMITH INTL (LBB)

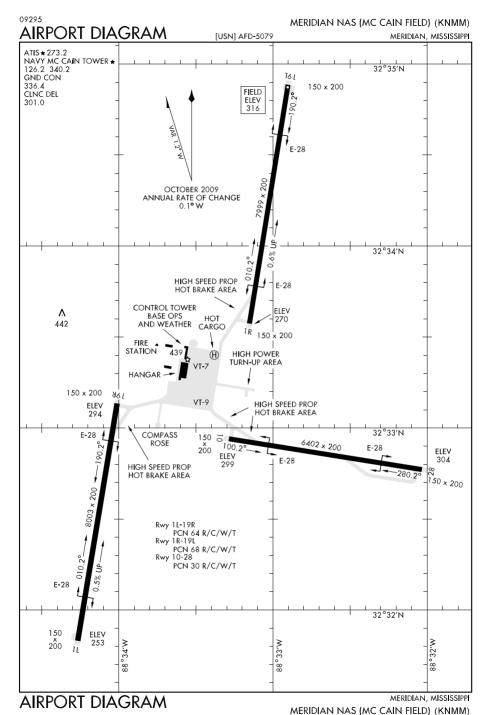


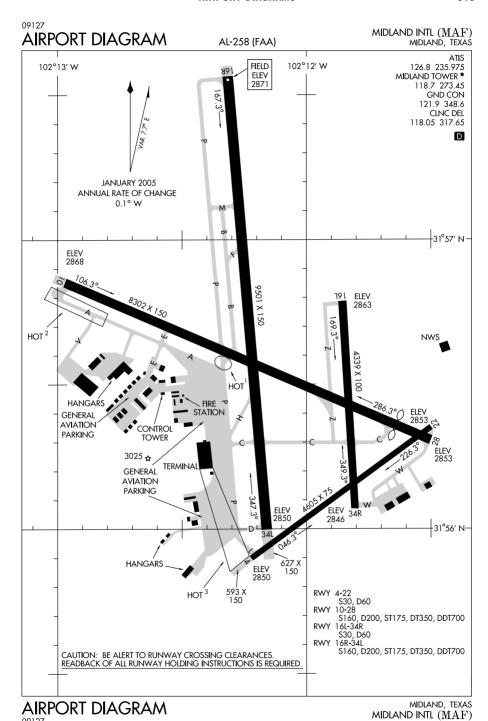


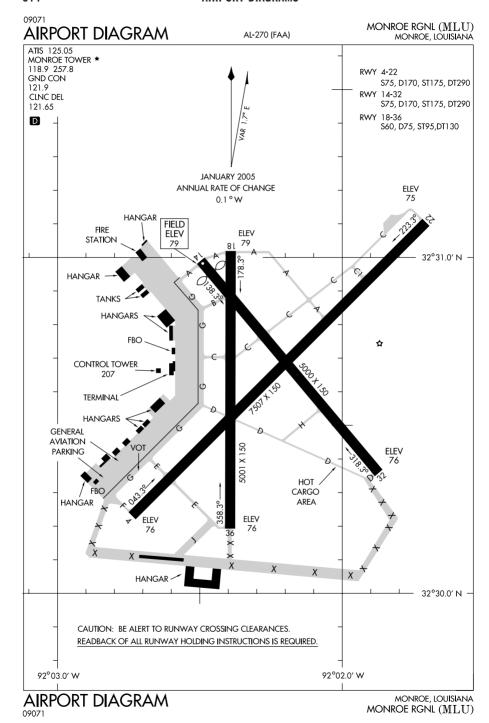


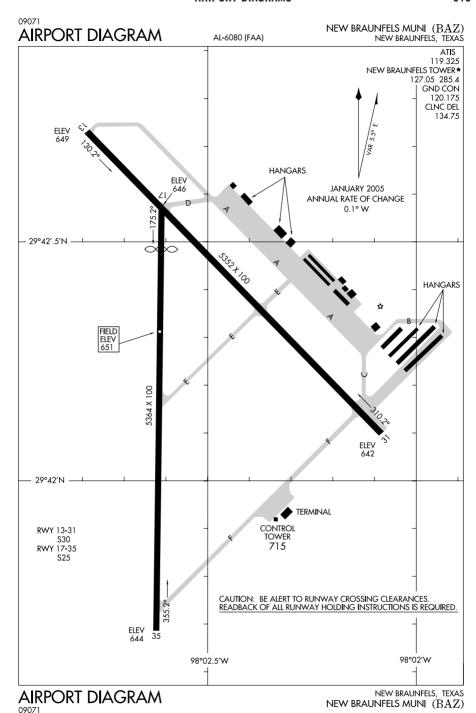
09071

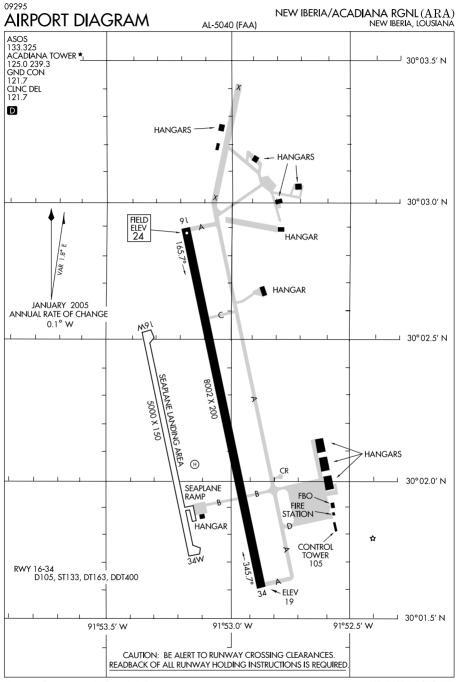
MERIDIAN, MISSISSIPPI MERIDIAN/KEY FIELD (MEI)



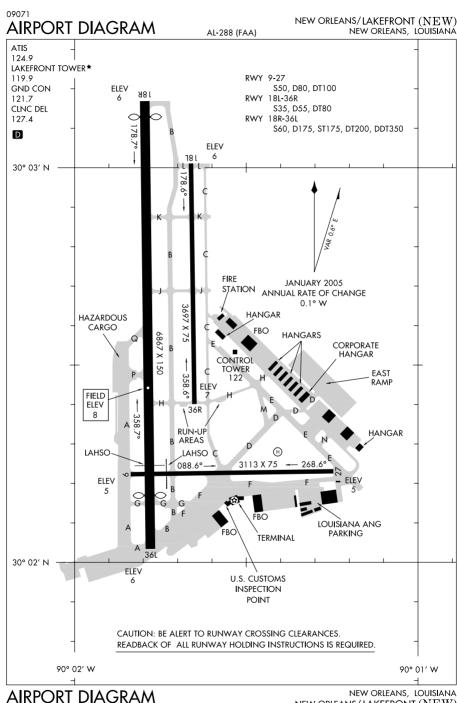




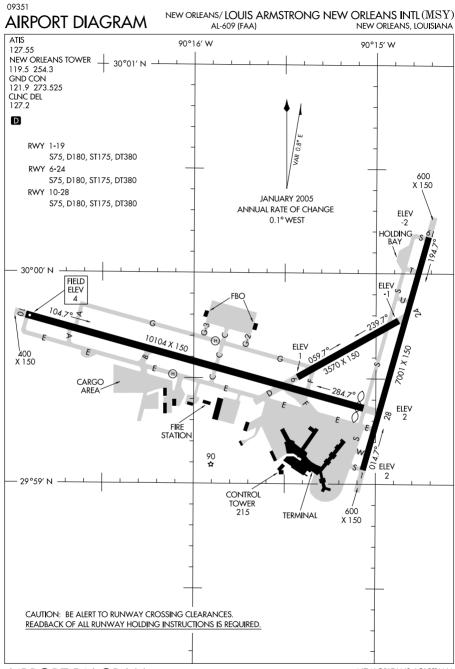




NEW IBERIA/ACADIANA RGNL (ARA)

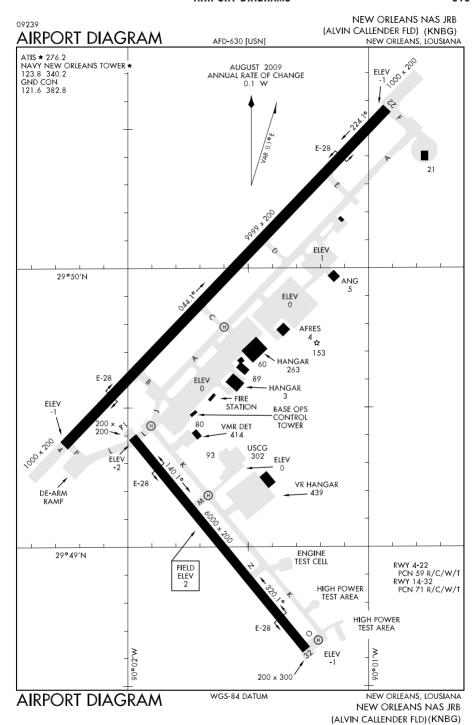


NEW ORLEANS, LOUISIANA NEW ORLEANS/LAKEFRONT (NEW)

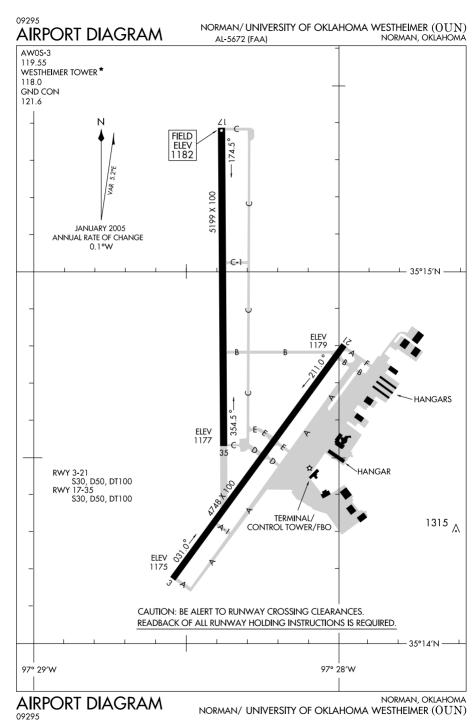


NEW ORLEANS, LOUISIANA

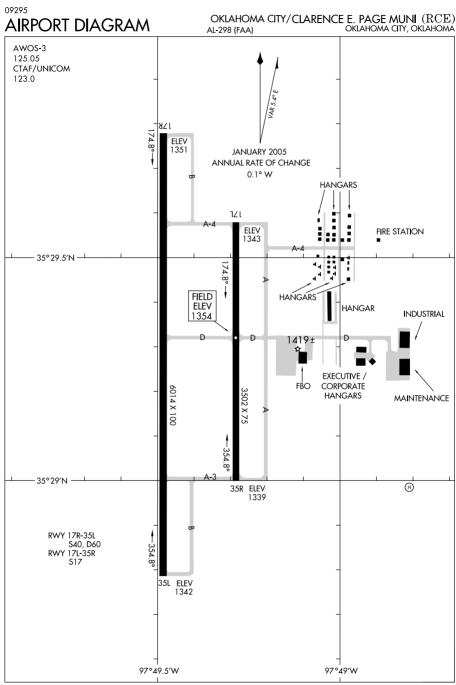
09351 NEW ORLEANS/ LOUIS ARMSTRONG NEW ORLEANS INTL (MSY)



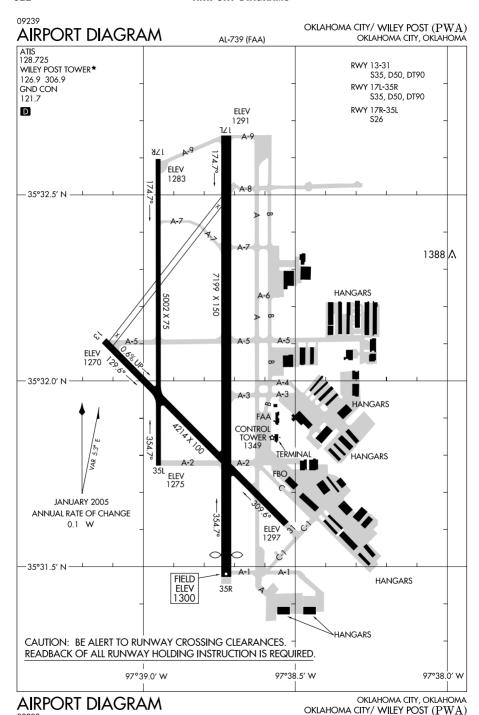
SC, 17 DEC 2009 to 11 FEB 2010

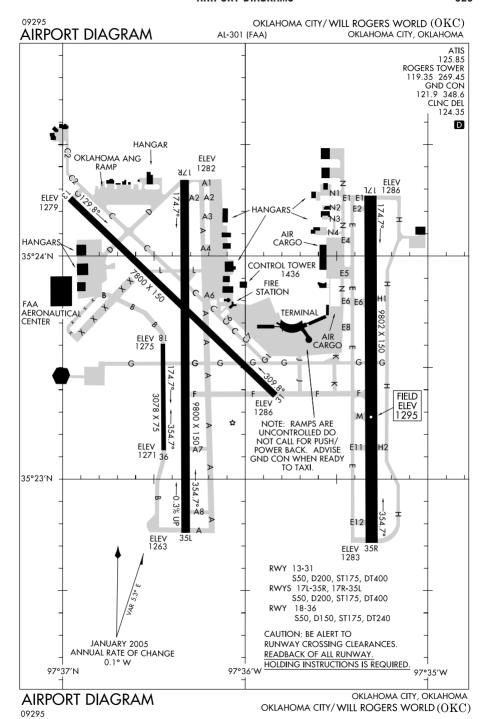


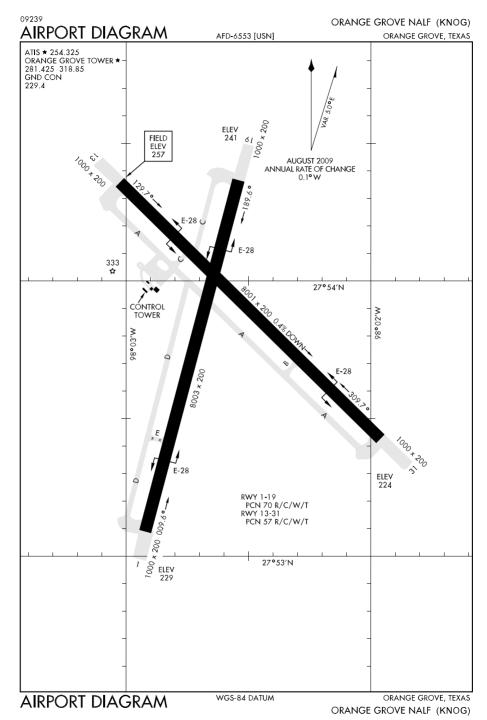
SC, 17 DEC 2009 to 11 FEB 2010

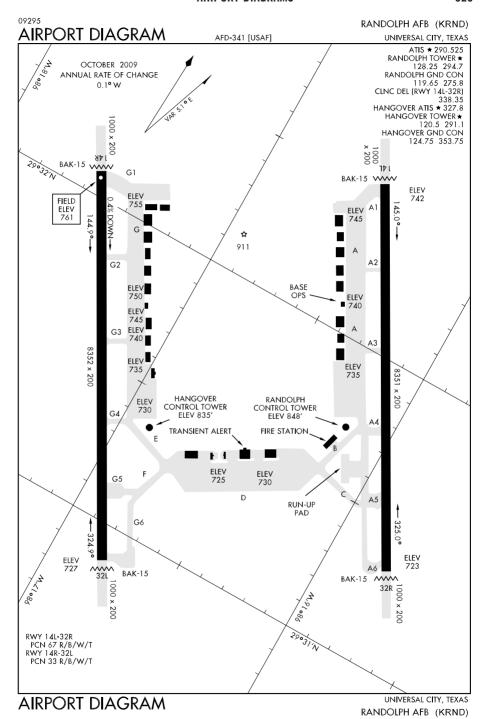


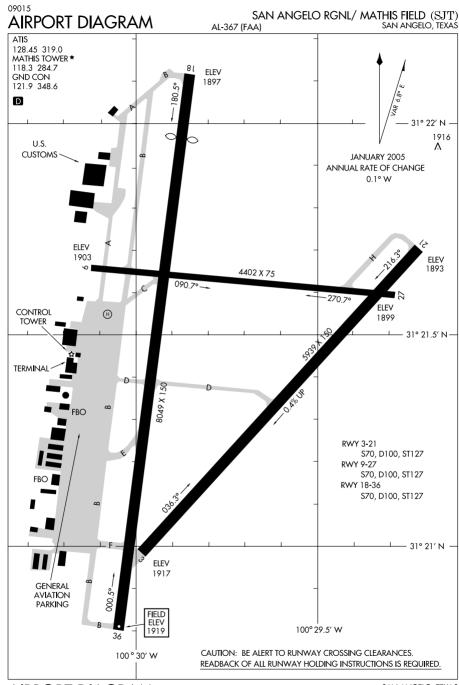
OKLAHOMA CITY/CLARENCE E. PAGE MUNI (RCE)



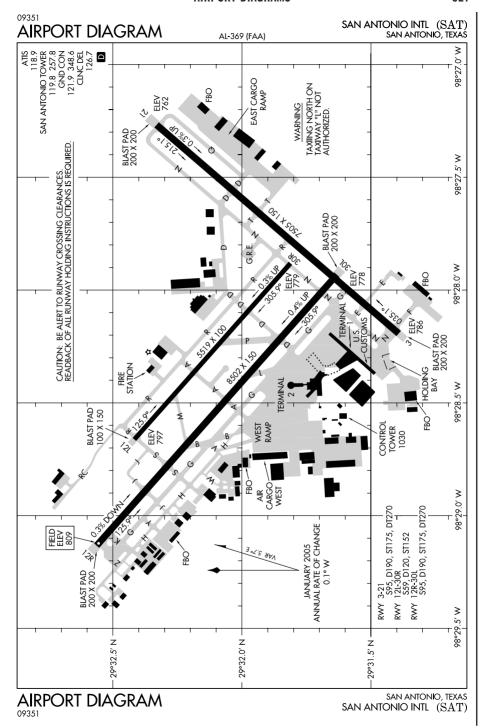




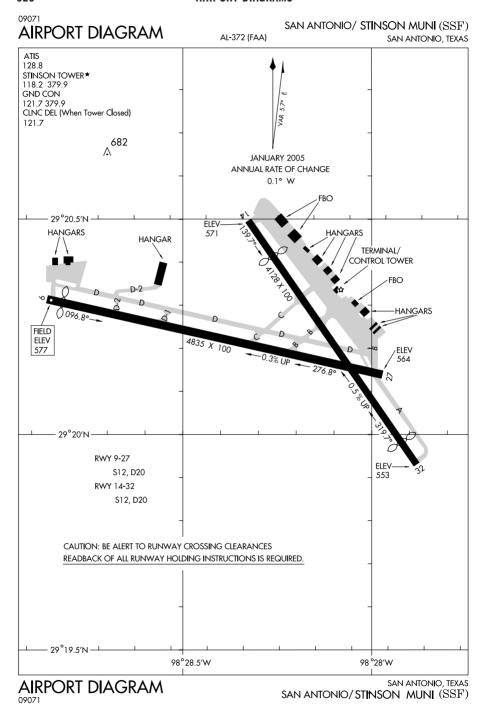


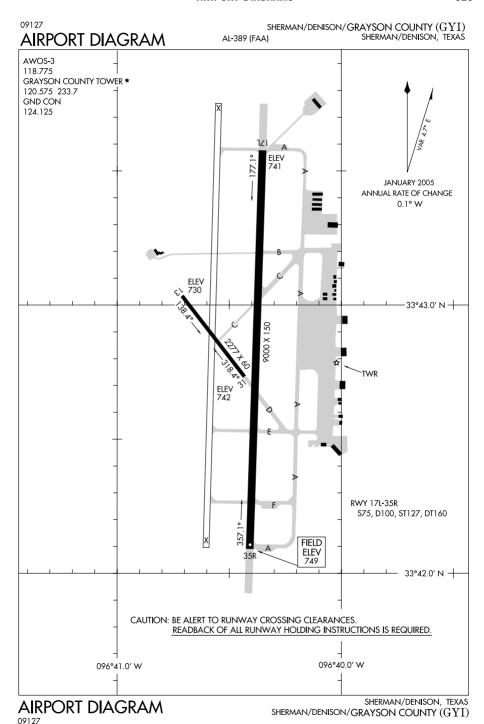


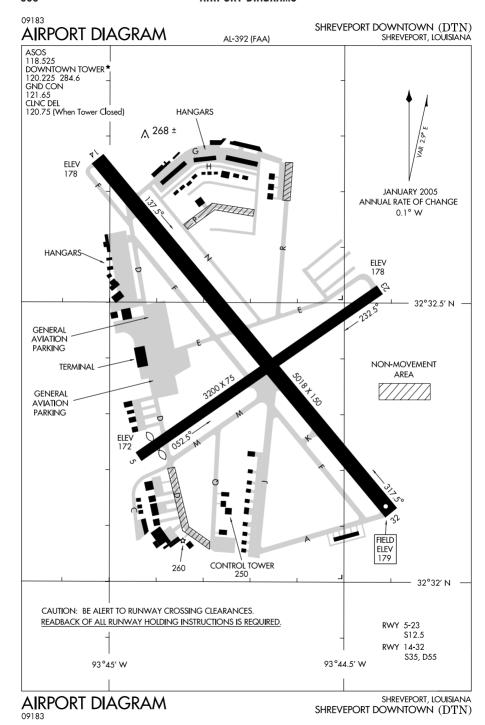
SAN ANGELO RGNL/ MATHIS FIELD (SJT)

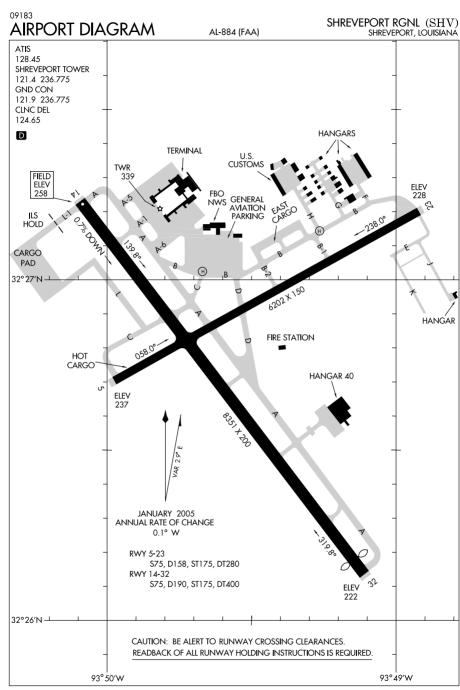


SC, 17 DEC 2009 to 11 FEB 2010

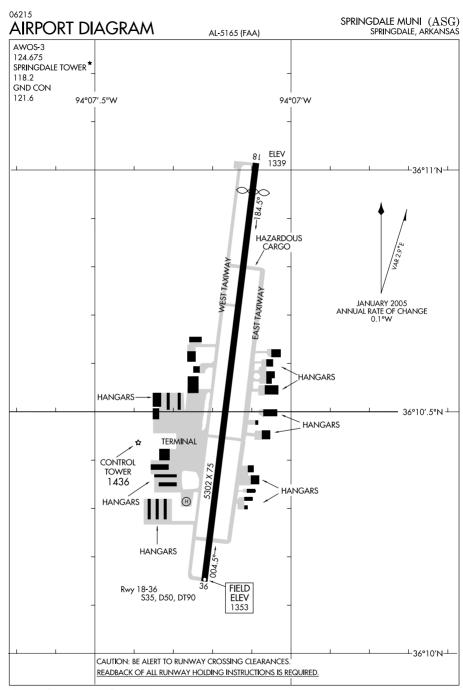




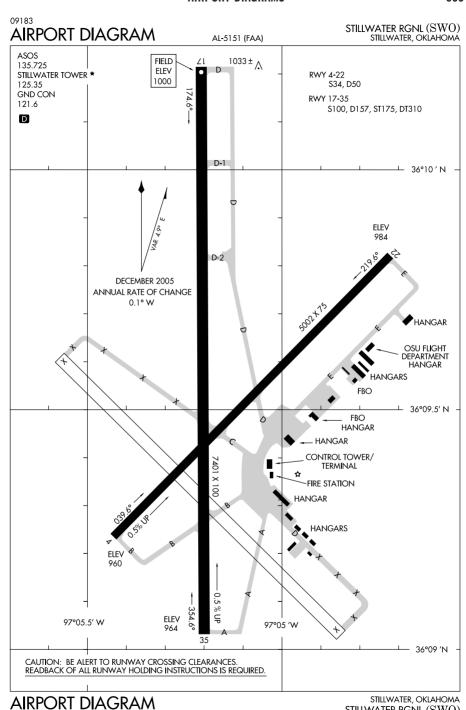




SHREVEPORT, LOUISIANA SHREVEPORT RGNL  $(\mathrm{SHV})$ 

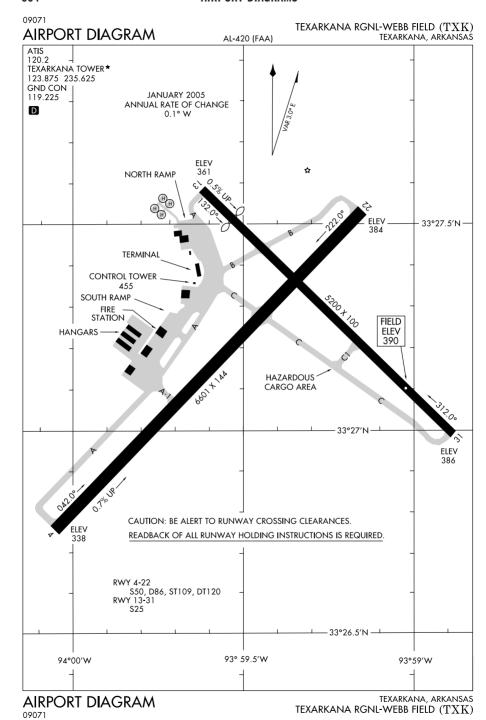


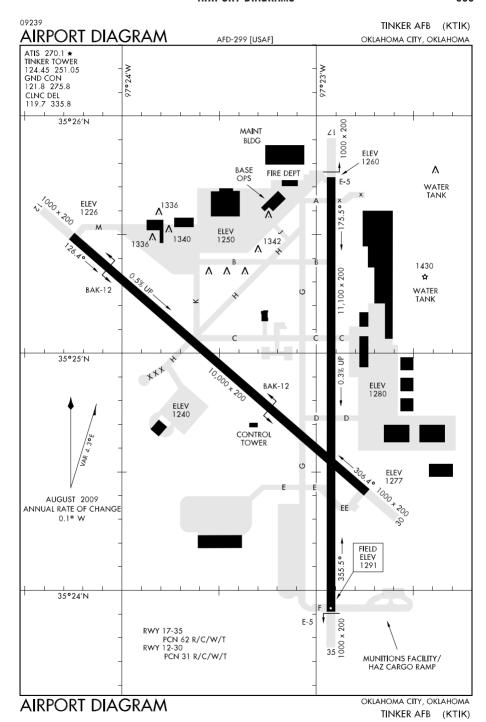
SPRINGDALE, ARKANSAS SPRINGDALE MUNI  $\left(ASG\right)$ 

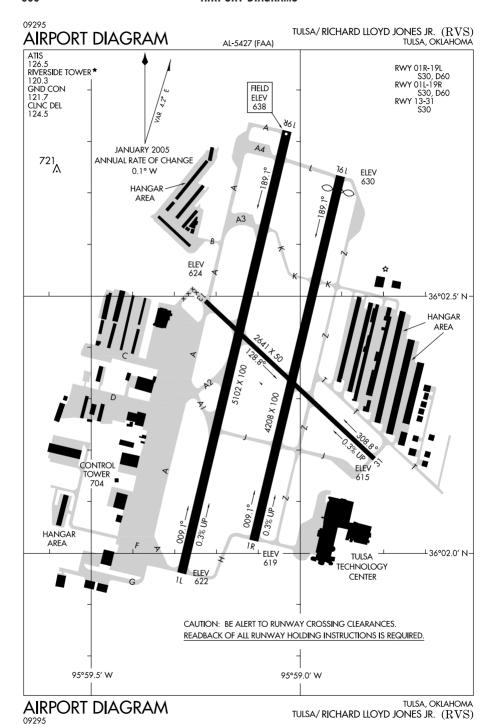


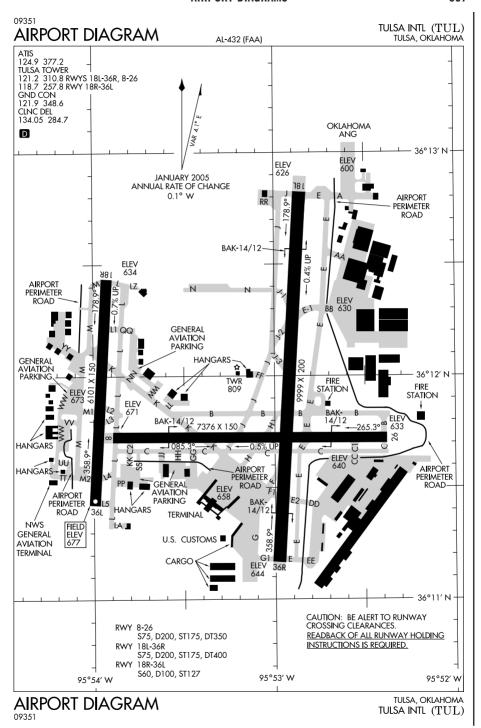
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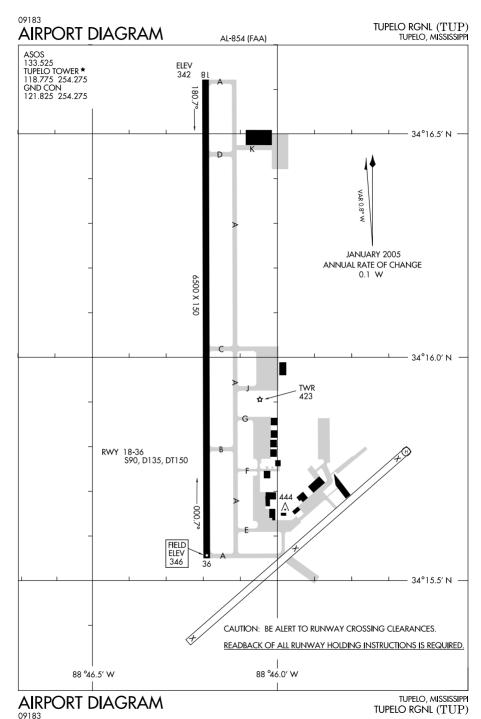
STILLWATER RGNL (SWO)

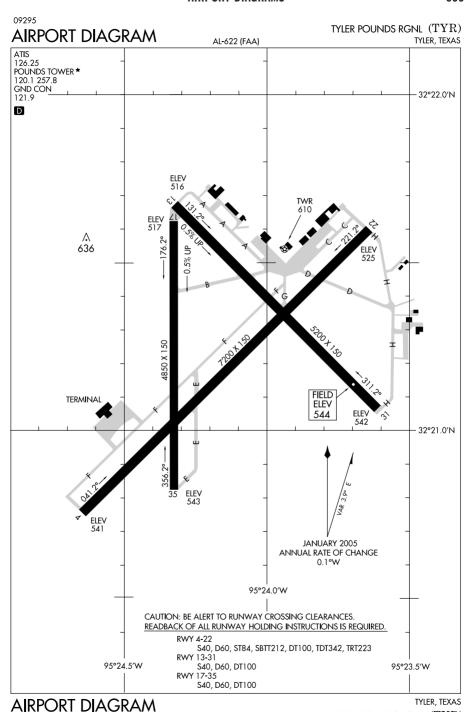




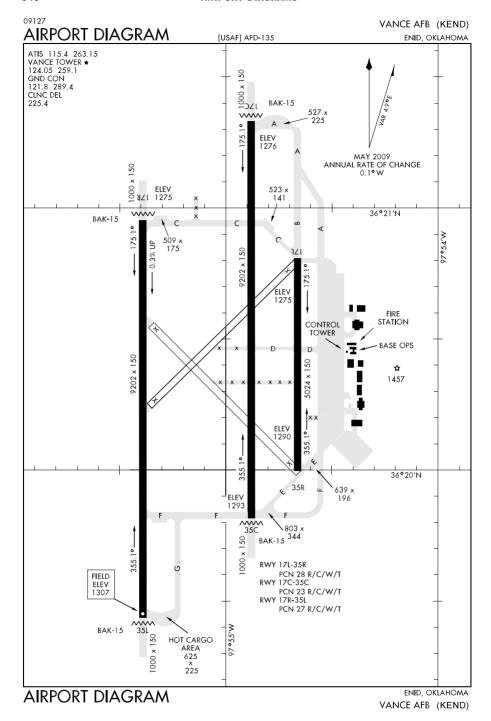


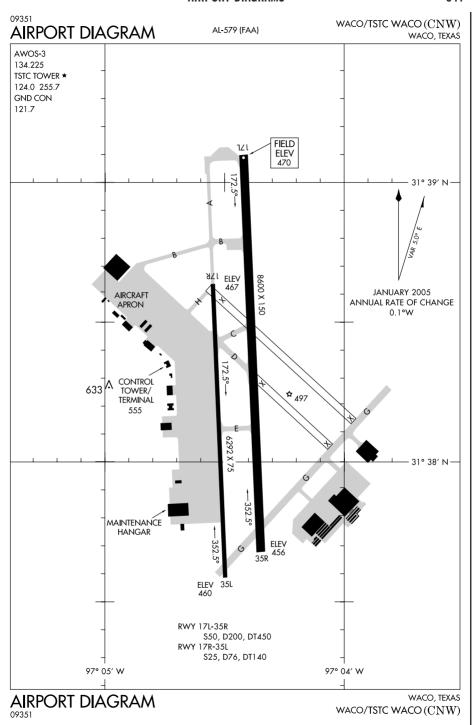


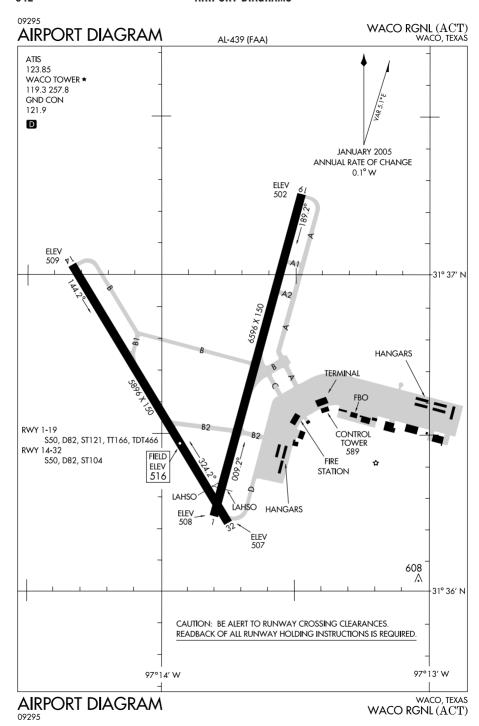




TYLER POUNDS RGNL (TYR)







SC, 17 DEC 2009 to 11 FEB 2010

